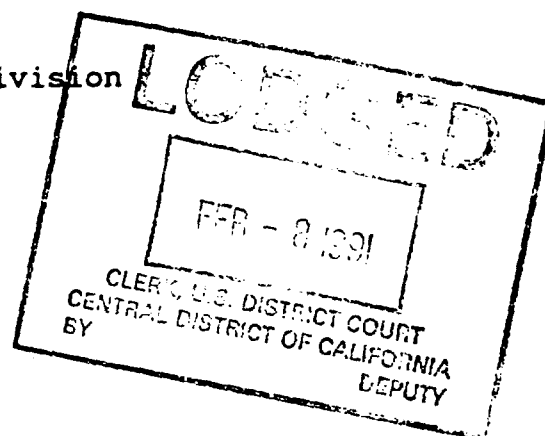


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UNITED STATES DISTRICT COURT
FOR THE CENTRAL DISTRICT OF CALIFORNIA

UNITED STATES OF AMERICA, THE STATE)
OF CALIFORNIA, and THE CALIFORNIA)
HAZARDOUS SUBSTANCE ACCOUNT)

CIVIL ACTION NO. CV 88 7186
(MRP) Kx

Plaintiffs,)

SECOND PARTIAL
CONSENT DECREE

v.)

Date of Entry: Sept. 17, 1991.

1 AMERICAN PETROFINA EXPLORATION COMPANY,)
 2 AMERITONE PAINT CORPORATION,)
 3 NATIONAL RAILROAD PASSENGER CORPORATION)
 4 for AMTRAK,)
 5 ARMSTRONG WORLD INDUSTRIES, INC.)
 6 (formerly known as ARMSTRONG CORK)
 7 COMPANY),)
 8 B&C PLATING COMPANY,)
 9 BEHR PROCESS CORPORATION,)
 10 VEST, INC. (formerly known as BERNARD)
 11 EPPS & CO.),)
 12 BERWIND RAILWAY SERVICE COMPANY, ")
 13 BIRD INC.,)
 14 BLACKTOP MATERIALS, INC.,)
 15 CAPITOL METALS, INC.,)
 16 CHROME CRANKSHAFT CO., INC.,)
 17 CLOUGHERTY PACKING COMPANY,)
 18 CONTAINER CORPORATION OF AMERICA,)
 19 COOPER & BRAIN, INC.,)
 20 JAMES RIVER II, INC. for CROWN)
 21 ZELLERBACH, INC.,)
 22 GAYLORD CONTAINER CORPORATION for CROWN)
 23 ZELLERBACH, INC.,)
 24 DEUTSCH COMPANY,)
 25 PACKAGING CORPORATION OF AMERICA for)
 26 EKCO PRODUCTS, INC.,)
 27 FIBREBOARD CORPORATION,)
 28 THE FLINTKOTE COMPANY for PIONEER)
 FLINTKOTE,)
 FORD MOTOR COMPANY,)
 GENERAL ELECTRIC COMPANY,)
 GOULD INC.,)
 GRANT OIL TOOL,)
 G.R. NANCE CO., INC.,)
 HELLMAN PROPERTIES,)
 THE HERTZ CORPORATION,)
 H&L TOOTH COMPANY for HI-PRODUCTION)
 20 FORGE COMPANY,)
 21 CITY OF INGLEWOOD,)
 22 INLAND CONTAINER CORPORATION,)
 23 BASF CORPORATION for INMONT INK)
 24 CORPORATION,)
 25 INTERSTATE BRANDS CORPORATION,)
 26 KERN FOODS, INC. SHAREHOLDERS')
 27 LIQUIDATING TRUST,)
 28 KEYSOR-CENTURY CORPORATION,)
 LADISH PACIFIC DIVISION,)
 25 ANCHOR GLASS CONTAINER CORPORATION for)
 LATCHFORD GLASS COMPANY, INC.,)
 26 MASTER PROCESSING CORPORATION,)
 27 BLACK AND DECKER CORPORATION for)
 MCCULLOCH CORPORATION,)
 28 CHRYSLER CORPORATION, for NU CAR PREP)
 SYSTEMS, INC.,)

1 OIL AND SOLVENT PROCESS CO.,)
OLYMPIC PAINT AND CHEMICAL CO.,)
2 DRESSER INDUSTRIES for MAGCOBAR and)
PACIFIC PUMP,)
3 PACIFIC TUBE COMPANY,)
PERVO PAINT COMPANY,)
4 H&L TOOTH COMPANY for PRECISION HEAT)
TREATING COMPANY,)
5 FERRO CORPORATION (PRODUCTION AND)
CHEMICAL DIVISION),)
6 PRUDENTIAL OVERALL SUPPLY,)
TURCO PRODUCTS, INC. and TURCO PUREX)
7 INDUSTRIAL CORP.,)
THE DIAL CORPORATION,)
8 RENTA UNIFORM & TOWEL SUPPLY ,)
R&D LATEX CORPORATION,)
9 ROCKWELL INTERNATIONAL CORP.,)
SHASTA BEVERAGES, INC., a division of)
10 SARA LEE CORPORATION,)
STONE CONTAINER CORPORATION for)
11 SOUTHWEST FOREST INDUSTRIES, INC.,)
E.B KING for SOUTHERN CALIFORNIA)
12 CHEMICAL COMPANY,)
STAR-KIST FOODS, INC.)
13 ARTRA GROUP INCORPORATED for SYNKOLOID)
COMPANY,)
14 TELEDYNE CAST PRODUCTS,)
TELEDYNE LAARS,)
15 TELEDYNE LINAIR,)
TELEDYNE MICROELECTRONICS,)
16 TELEDYNE POST,)
TELEDYNE SPRAGUE ENGINEERING,)
17 GROW GROUP, INC. for TREWAX,)
VOI-SHAN,)
18 ALCOA/TRE for WESLOCK DIVISION,)
SOCO-WESTERN CHEMICAL CORPORATION for)
19 WESTERN CHEMICAL &)
MANUFACTURING CO.,)
20 WILMINGTON LIQUID BULK TERMINALS, and)
ZOLATONE PROCESS, INC.)
21)

Defendants.

22)

23)

24)

25)

26)

27)

28)

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1
2 SECOND PARTIAL CONSENT DECREE
3

4 WHEREAS, the United States of America (hereinafter "United
5 States"), on behalf of the Administrator of the United States
6 Environmental Protection Agency (hereinafter "EPA"), has filed
7 concurrently with this Second Partial Consent Decree a motion to
8 amend the complaint originally filed on December 7, 1988, and
9 amended on May 11, 1989, in the matter captioned United States et
10 al. v. Chevron Chemical Company, et al., No. CV 88 7186 MRP(Kx),
11 pursuant to the Comprehensive Environmental Response,
12 Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as
13 amended by the Superfund Amendments and Reauthorization Act of
14 1986, Pub. L. No. 99-499, 100 Stat. 1613 (1986) (hereinafter
15 "CERCLA"). The amended complaint seeks to compel the Defendants
16 (including those parties identified in Section II (Parties) of
17 this Second Partial Consent Decree, and hereinafter referred to
18 as "Cash-II Defendants" or "Defendants") to perform certain
19 remedial actions and to recover certain response costs that have
20 been and will be incurred by the United States in response to
21 alleged releases and threatened releases of hazardous substances
22 from the landfill known as the Operating Industries, Inc. site
23 (hereinafter "OII" or the "Site") located at 900 Potrero Grande
24 Drive, Monterey Park, California.

25
26 WHEREAS, the State of California, on behalf of the
27 Department of Health Services (hereinafter "the State") has
28 joined with the United States in the motion to amend the First

Amended Complaint previously filed in this matter pursuant to CERCLA, the Hazardous Substance Account, California Health and Safety Code §§ 25300, et seq., California Civil Code § 3494, and California Health and Safety Code §§ 205 and 206 seeking to compel the Defendants to perform certain remedial actions and to recover certain response costs that have been incurred by the State in response to alleged releases and threatened releases of hazardous substances from the Site.

WHEREAS, the United States and the State allege that the Operating Industries, Inc. landfill is a facility as defined in Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

WHEREAS, the United States and the State allege that the Defendants are persons, as defined in Section 101(21) of CERCLA, 42 U.S.C. § 9601(21), and California Health and Safety Code § 25319 and that wastes and constituents thereof generated by the Defendants sent to and disposed of at the Site, are "hazardous substances," as defined in Section 101(14) of CERCLA, 42 U.S.C. § 9601(14), and California Health and Safety Code §§ 25316 and 25317.

WHEREAS, the United States and the State allege that the past, present, and potential migrations of hazardous substances from the Site constitute actual and threatened "releases," as defined in Section 101(22) of CERCLA, 42 U.S.C. § 9601(22), and California Health and Safety Code §§ 25320 and 25321, and further allege that the Defendants are persons subject to liability under

(
1 Section 107(a) of CERCLA, 42 U.S.C. § 9607(a), and California
2 Health and Safety Code § 25360.
3

4 WHEREAS, pursuant to Sections 121 and 122 of CERCLA, the
5 United States, the State and the Cash-II Defendants have each
6 stipulated and agreed to the making and entry of this Second
7 Partial Consent Decree (hereinafter "Decree" or "Second Partial
8 Consent Decree") prior to the taking of any testimony, and in
9 full settlement of the claims raised in the complaint.
10

11 WHEREAS, the United States and the State have previously
12 entered into a partial settlement concerning the Site with
13 certain other parties, that was memorialized in a Partial Consent
14 Decree, entered by this Court and captioned, United States et al.
15 v. Chevron Chemical Company, et al., No. CV 88 7186 MRP(Kx),
16 (hereinafter referred to as the "first Partial Consent Decree" or
17 the "first Decree"), whereby the settling Defendants are
18 obligated to perform certain remedial work and to make payments
19 to the United States and the State. A copy of the first Partial
20 Consent Decree, as amended, is attached as Exhibit A.
21

22 WHEREAS, the United States, the State and the Cash-II
23 Defendants have agreed upon a settlement pursuant to which the
24 Cash-II Defendants agree to make payments to the EPA and the
25 State for resolution of the claims set forth in the complaint
26 filed in this action.
27

28 WHEREAS, the United States, the State and the Cash-II

1 Defendants agree that the settlement of the claims raised in the
2 complaint and entry of this Consent Decree is in good faith, in
3 an effort to avoid expensive and protracted litigation, without
4 any admission or finding of liability or fault as to any
5 allegation or matter.

6
7 NOW THEREFORE, it is ORDERED, ADJUDGED, AND DECREED as
8 follows:

9
10 I. JURISDICTION
11

12 The Court has jurisdiction over the subject matter of this
13 action and the signatories to this Decree pursuant to CERCLA,
14 42 U.S.C. §§ 9601, et seq. and 28 U.S.C. §§ 1331, 1345, and
15 pendent jurisdiction over the claims arising under the laws of
16 California. The Cash-II Defendants shall not challenge the
17 Court's jurisdiction to enter and enforce this Decree.
18 Defendants listed in Section II (Parties) waive service of
19 summons and, for the purpose of this Decree, agree to submit
20 themselves to the jurisdiction of this Court.

21
22 II. PARTIES
23

24 A. The Parties to this Decree are the United States of
25 America, the State, and the Cash-II Defendants. All actions
26 taken by the State pursuant to this Decree, including all
27 approvals, reservations of rights, and covenants not to sue are
28 solely those of the California Department of Health Services

(EHS) and of no other agency except that the California Attorney General also covenants not to sue the Cash-II Defendants, as provided in Section XXX (Covenant Not to Sue) of the first Partial Consent Decree.

B. Cash-II Defendants are defendants listed in Exhibit B that have agreed to pay the specified amounts under the Schedules also set forth in Exhibit B.

III. DENIAL OF LIABILITY

The Cash-II Defendants deny any and all legal or equitable liability under any federal, state, or local statute, regulation, ordinance, or common law for any response costs, damages or claims caused by or arising out of conditions at or arising from the OII Site. By entering into this Decree, or by taking any action in accordance with it, Cash-II Defendants do not admit any allegations contained herein or in the complaints, nor do Defendants admit liability for any purpose or admit any issues of law or fact or any responsibility for the alleged release or threat of release of any hazardous substance into the environment. Nothing in this Section shall alter the Cash-II Defendants' agreement not to challenge the Court's jurisdiction as set forth in Section I (Jurisdiction).

IV. BINDING EFFECT

This Decree shall apply to and be binding upon the

signatories, their successors, and assigns. No change in ownership or corporate or partnership status shall in any way alter the Cash-II Defendants' responsibilities under this Decree. Each Cash-II Defendant shall be responsible and shall remain responsible for carrying out all activities required of that particular Cash-II Defendant under this Decree.

V. PURPOSE

The purpose of this Decree is to resolve the dispute among the Parties for the same "Covered Matters" as defined in Paragraph H of Section VII (Definitions) of the first Partial Consent Decree and Section XXX (Covenant Not to Sue) of the first Partial Consent Decree, and to resolve the liability of the Cash-II Defendants for those "Covered Matters."

It is the intention of this Decree to resolve the liability of two sets of Cash-II Defendants: (1) those Defendants who were issued general notice letters pursuant to Section 122(e) of CERCLA, 42 U.S.C. § 9622(e), before July 10, 1989 and who have not resolved their liability to date, ("the Nonsettlers"); and (2) those Defendants who were issued general notice letters on or after July 10, 1989 and before the date this Decree is lodged with the Court ("the 4th tier Defendants"). It is the purpose of this Decree to resolve the liability of the 4th tier Defendants for the "Covered Matters" using the same payment per unit of volume of manifested waste formula as applied to the Cash Defendants to the first Partial Consent Decree, and to resolve

the liability of the Nonsettlers for the "Covered Matters" using the same payment per unit of volume of manifested waste formula plus a "premium" for the delay in reaching settlement and accrued interest.

VI. INCORPORATION OF THE TERMS OF
THE FIRST PARTIAL CONSENT DECREE

A. The parties to this Decree agree that the terms of the first Partial Consent Decree, as amended, and as appended to this Decree as Exhibit A, shall be incorporated into this Decree by reference as if fully set forth below and shall be binding upon the signatories to this Decree, except as expressly noted in this Section below.

B. For the purpose of applying the terms of the first Partial Consent Decree to the Cash-II Defendants, the Second Partial Consent Decree is controlling in the event any language or term in this Decree conflicts with any language or term of the first Decree.

C. For the purpose of applying the incorporated terms of the first Partial Consent Decree to the Cash-II Defendants, all references to the "Defendant(s)" or "Cash Defendants" in the first Decree shall be read to include the Cash-II Defendant(s), and no Cash-II Defendant shall be considered to be a Work Defendant.

(

D. For the purpose of applying the incorporated terms of the first Decree, all references to Attachment A of the first Partial Consent Decree shall be read to refer to Exhibit B of this Decree, and all references to Attachment C of the first Decree shall be read to refer to Exhibit C (Volumetric Totals) of this Decree.

E. 1. Cash-II Defendants shall be entitled to any potential reduction provided for by the first subparagraph of Paragraph H of Section XVIII (Reservation of Rights) of the first Partial Consent Decree.

2. For the purpose of applying the second subparagraph of Paragraph H of Section XVIII (Reservation of Rights) of the first Partial Consent Decree, nothing in this Second Partial Consent Decree shall alter the status of the "non-noticed PRPs." "Non-noticed PRPs" shall continue to mean any potentially responsible party under Section 107(a) of CERCLA which was not notified by EPA of its status as a potentially responsible party at the OII site as of the effective date of the first Partial Consent Decree.

VII. ADDITIONAL RESERVATIONS OF RIGHTS

A. Nothing in this Decree shall be construed to independently create any obligation or right between the Cash-II Defendants and any and all persons who are not parties to this Decree. Nothing in this Decree shall be construed as limiting

(
1 the Cash-II Defendants' right to seek contribution or
2 indemnification from any or all liable persons who are not
3 signatories to the Second Partial Consent Decree.
4

5 B. Nothing in this Decree shall limit the right of a
6 Cash-II Defendant from entering into, or limit the enforceability
7 of, a separate agreement(s) with any Defendant or any other
8 person(s) except the United States or the State of California,
9 for reimbursement of any payment made under this Decree.
10

11 VIII. PAYMENTS BY CASH-II DEFENDANTS
12

13 Each Cash-II Defendant listed in Exhibit B shall make
14 payments to EPA and the State as set forth in Exhibit B. Except
15 as may be specifically provided for in Exhibit B, all payments
16 shall be made within thirty (30) days of notice of entry of this
17 Decree. The payments of such amounts shall fully relieve each
18 Cash-II Defendant of its responsibility for Covered Matters and
19 shall entitle each Cash-II Defendant to Contribution Protection
20 under Section XXIX (Contribution Protection) of the first Decree
21 and to the Covenant Not to Sue under Section XXX (Covenant Not to
22 Sue) of the first Decree with respect to all such Covered
23 Matters, whether or not the other Cash-II Defendants fulfill
24 their obligations under this Decree. If EPA and the State do not
25 receive all payments on behalf of any Cash-II Defendant under
26 this Decree, that Defendant shall not be entitled to any benefits
27 of this Decree, including those incorporated under the provisions
28 of Section XXIX (Contribution Protection) of the first Decree and

1 Section XXX (Covenant Not to Sue) of the first Decree.

2

3 The checks shall reference the OII Site. For payments to
4 EPA, checks shall be made out to "First Interstate Bank of
5 California -- Cash Fund Account No. 1313815-001" and be sent to:

6

7 Institutional Custody Services
8 First Interstate Bank of California
9 Attention: Department Manager
10 707 Wilshire Boulevard, W10-2
11 Los Angeles, California 90017

12

13 For State of California payments, checks shall be made out
14 to the "California Department of Health Services" and sent to:

15

16 California Department of Health Services
17 Toxics Substances Control Program
18 P.O. Box 942732
19 Sacramento, CA 94234-7320

20

21

22 A copy of all transmittal letters and a copy of the check
23 shall be sent to the EPA and State Project Coordinator, as
24 appropriate. The addresses for the Project Coordinators are as
25 follows:

26

27

28

1 For EPA:

2
3 EPA Project Coordinator - OII Site
4 Superfund Enforcement Section (H-7-1)
5 U.S. Environmental Protection Agency
6 1235 Mission Street
7 San Francisco, California 94103
8

9 For the State:

10
11 OII Project Coordinator
12 Department of Health Services
13 Toxic Substances Control Program
14 1405 San Fernando Road, Suite 300
15 Burbank, California 91504
16

17 IX. MODIFICATION
18

19 Except as provided for in this Decree, there shall be no
20 modification of this Decree without written approval of EPA, the
21 State, the Cash-II Defendants and the Court, or as ordered by the
22 Court.
23

24 X. LODGING AND PUBLIC PARTICIPATION
25

26 Pursuant to Section 122(d) of CERCLA, 42 U.S.C. § 9622(d),
27 this Decree will be lodged with the Court for thirty (30) days,
28 and the United States shall publish a Notice of Availability of

1 review to allow public comment prior to entry by the Court. The
2 United States will file with the Court a copy of any comments
3 received and the responses of the United States to such comments.
4

5 No Party shall be bound by modifications to this Decree
6 without its prior written consent, and consent to this Decree is
7 not consent to such modifications.
8

9 **XI. CONTINUING JURISDICTION**
10

11 The Court specifically retains jurisdiction over both the
12 subject matter of and the Parties to this action for the duration
13 of this Decree for the purposes of issuing such further orders or
14 directions as may be necessary or appropriate to construe,
15 implement, modify, enforce or terminate the terms of this Decree
16 or for any further relief as the interest of justice may require.
17

18 **XII. REPRESENTATIVE AUTHORITY**
19

20 Each undersigned representative of the Parties to this
21 Decree certifies that he or she is fully authorized by the Party
22 to enter into and execute the terms and conditions of this
23 Decree, and to legally bind such Party to this Decree.
24

25 **XIII. EFFECTIVE DATE**
26

27 This Decree is effective upon the date of its entry by the
28 Court.

1
2
3 XIV. TERMINATION AND SATISFACTION
4

5 Upon full payment of all its obligations under Section VII
6 of this Decree (Payments by Cash-II Defendants) and Section X
7 (Escrow Account) of the first Partial Consent Decree and Exhibit
8 B, each Cash-II Defendant shall have satisfied its obligations
9 for Covered Matters under this Decree, and this Decree shall be
10 terminated as to that Cash-II Defendant, provided that the
11 termination shall not alter the following incorporated provisions
12 of the first Partial Consent Decree: Section XVIII (Reservation
13 of Rights), Section XXIX (Contribution Protection), Section XXX
14 (Covenant Not to Sue) and such other continuing rights and
15 obligations of that Cash-II Defendant as incorporated into the
16 Second Partial Consent Decree.
17
18

19 XV. SECTION HEADINGS
20

21 The section headings set forth in this Decree and its Table
22 of Contents are included for convenience of reference only and
23 shall be disregarded in the construction and interpretation of
24 any of the provisions of this Decree.
25
26
27
28

XVI. COUNTERPARTS

This Decree may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one and the same document.

SIGNED and ENTERED this ____ day of _____, 1990.

UNITED STATES DISTRICT JUDGE

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Dated: 1.4.91

K. A. Brody

Dated: January 2, 1991

Division _____

LOURDES G. BAIRD
United States Attorney

Dated: _____

Dated: December 9, 1940

Dated: 9.12.90

Dated: August 31, 1990

KATHERINE L. SHINE
Assistant Regional Counsel
U.S. EPA Region IX
1235 Mission Street
San Francisco, California 94103

FOR PLAINTIFF STATE OF CALIFORNIA:

Dennis A. Ragen
DENNIS A. RAGEN
Deputy Attorney General
110 West A. Street
Suite 700
San Diego, CA 92101

Dated: October 9, 1990

Jamerson Mitchell, for
KENNETH W. KIZER
Director, Department of Health Services
714 "P" Street
Office Building #8, Room 1253
Sacramento, CA 95814

Dated: October 18, 1990


1 I, the undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: American Petrofina Exploration Company

6
7 DATED: July 16, 1990

8
9 BY:

10
11 Name: Christian Buggenhout

12
13 Signature: 

14
15 Title: Vice President

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: AMERITONE PAINT CORPORATION

6
7 DATED: July 14, 1990
8

9 BY:

10

11 Name: LLOYD FRANK

12
13 Signature: 
14

15 Title: SECRETARY
16
17
18
19
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21
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(


The undersigned Defendant hereby consents to the foregoing
Second Partial Consent Decree concerning the Operating
Industries, Inc. site.

FOR DEFENDANT: GROW GROUP, INC.

DATED: July 14, 1990

BY:

Name: LLOYD FRANK

Signature: 

Title: SECRETARY

(

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: National Railroad Passenger Corporation
6 (Amtrak)

7 DATED: June 8, 1990

8
9 BY:

10
11 Name: Robert T. Noonan

12
13 Signature: Robert T. Noonan

14
15 Title: SR. DIR. - ENV. Control and Industrial Hygiene

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Armstrong World Industries, Inc.
6 (fka Armstrong Cork Company)

7 DATED: June 19, 1990

8
9 BY:

10
11 Name: David D. Wilson

12
13 Signature: 

14
15 Title: Associate Counsel and
16 Authorized Representative

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: B&C Plating Company, a dissolved
6 California partnership

7 DATED: July 23, 1990

8
9 BY:

10
11 Name: Tommie B. Carter

12
13 Signature: Tommie B. Carter

14
15 Title: Former 50% Partner

(

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: Behr Process Corporation

6

7 DATED: December 13, 1990

8

9 BY:

10

11 Name: John V. Croul

12

13 Signature: 

14

15 Title: President

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Vest, Inc. formerly known as Bernard Epps & Co.

6
7 DATED: May 10th, 1990

8
9 BY:

10
11 Name: Hiroshi Kume

12
13 Signature: 

14
15 Title: President

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: Berwind Railway Service Company
6

7 DATED: June 6, 1990
8

9 BY:

10
11 Name: Richard D. Rivers
12

13 Signature: 
14

15 Title: Vice President
16
17
18
19
20
21
22
23
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25
26
27

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: BIRD INCORPORATED

6
7 DATED: August 3, 1990

8
9 BY:

10
11 Name: FRANK S. AUNT HONY

12
13 Signature: THS MAL

14
15 Title: VICE PRESIDENT

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Blacktop Industries, Inc.

6
7 DATED: _____

8
9 BY:

10
11 Name: KENNETH LEE SIPE

12
13 Signature: Kenneth L. Sipe

14
15 Title: PRESIDENT

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: CAPITAL METALS Co. INC.

6
7 DATED: JULY 19, 1990

8
9 BY:

10
11 Name: JOHN J. CROWLEY

12
13 Signature: 

14
15 Title: PRESIDENT

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: Chrome Crankshaft Co., Inc.

6

7 DATED: July 30, 1990

8

9 BY:

10

11 Name: Harry Williamson

12

13 Signature: Harry Williamson

14

15 Title: President

16

17

18

19

20

21

22

23

24

25

26

27

The Undersigned Defendant hereby consents to the foregoing Second Partial
Consent Decree concerning the Operating Industries, Inc. site.

FOR DEFENDANT: Clougherty Packing Company

DATED: August 3, 1990

BY:

Joseph D. Clougherty

NAME: Joseph D. Clougherty

SIGNATURE:

Joseph D. Clougherty

TITLE: President

7 AUG 1990

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Container Corporation of America

6
7 DATED: July 18, 1990

8
9 BY:

10
11 Name: Karl K. Hoagland, Jr.

12
13 Signature: *Karl K. Hoagland, Jr.*

14
15 Title: Vice President, General Counsel
16 and Secretary

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: Cooper & Brain INC

6

7 DATED: 5/2/90


8

9 BY:

10

11 Name: R. E. Brain

12

13 Signature: 

14

15 Title: President

16

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4 Crown Zellerbach, by
Gaylord Container Corporation
successor in interest for
5 FOR DEFENDANT: Baldwin Park plant only

6
7 DATED: July 31, 1990

8
9 BY:

10
11 Name: David F. Tanaka

12
13 Signature: David Tanaka

14
15 Title: Secretary

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 **FOR DEFENDANT:** CROWN ZELLERBACH
 by JAMES RIVER II, INC.,
6 Successor-in-Interest with Respect to Sheila Street
 and Garfield Avenue Plants only.

7 **DATED:** July 18, 1990

8
9 **BY:**

10
11 **Name:** B.A. THORP

12
13 **Signature:** B.A. Thorp

14
15 **Title:** Sr. V.P. Engineering

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: DEUTSCH COMPANY
6

7 DATED: JUNE 27, 1990
8

9 BY:

10

11 Name: W.E. HOLLER
12

13

13 Signature: *W.E. Holler*
14

15

15 Title: *Secretary*
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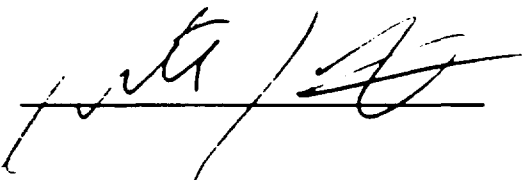
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Packaging Corporation of America,
6 into which Defendant Ekco Products,
 Inc. was merged on December 31, 1986.

7 DATED: June 6, 1990

8
9 BY:

10
11 Name: Patrick J. Fortune

12
13 Signature: 

14
15 Title: Senior Vice President

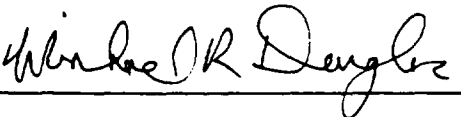
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: FIBREBOARD CORPORATION
6

7 DATED: July 6, 1990
8

9 BY:
10

11 Name: MICHAEL R. DOUGLAS
12

13 Signature: 
14

15 Title: GENERAL COUNSEL
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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: The Flintkote Company

6
7 DATED: July 19, 1990

8
9 BY:

10
11 Name: John A. West

12
13 Signature: 

14
15 Title: President

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: Ford Motor Company

6

7 DATED: July 31, 1990

8

9 BY:

10

11 Name: J. M. Rintamaki

12

13 Signature: 

14

15 Title: Assistant Secretary

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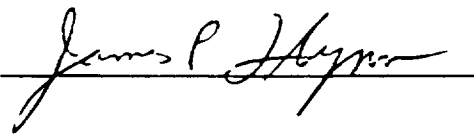
The undersigned Defendant hereby consents to the foregoing
Second Partial Consent Decree concerning the Operating
Industries, Inc. site.

FOR DEFENDANT: GENERAL ELECTRIC COMPANY

DATED: August 1, 1990

BY:

Name: James P. Flynn

Signature: 

Title: Counsel

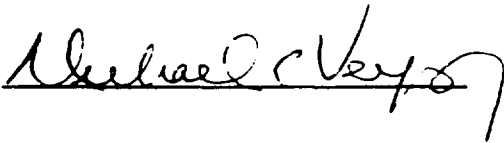
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Gould Inc.

6
7 DATED: June 19, 1990

8
9 BY:

10
11 Name: Michael C. Veysey

12
13 Signature: 

14
15 Title: Vice President, General Counsel
16 and Secretary

1 The undersigned Defendant hereby consents to the foregoing;
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Grant Oil Tool

6
7 DATED: 5/21/90

8
9 BY:

10
11 Name: Richard C. Langner

12
13 Signature: R. Langner

14
15 Title: Manager of Administration

1 Upon notification by EPA that G. R. Nance Co., Inc. may
2 make deferred payments, G. R. Nance Co., Inc. hereby consents
3 to the foregoing Second Partial Consent Decree concerning the
4 Operating Industries, Inc. site.

5

6 FOR DEFENDANT: G. R. Nance Co., Inc.

7

8 DATED: 5/9/90 _____

9

10 BY:

11

12 Name: G R Nance

13

14 Signature: G R Nance

15

16 Title: Pres

17

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT:

Hellman Properties

6
7 DATED:

8/2/90

8
9 BY:

10
11 Name:

John G. Sherwood

12
13 Signature:

John G. Sherwood

14
15 Title:

General Partner

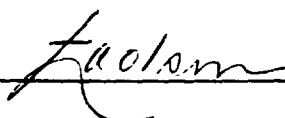
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: THE HERTZ CORPORATION
6

7 DATED: July 19, 1990
8

9 BY:

10
11 Name: Frank A. Olson
12

13 Signature: 
14

15 Title: Chairman of the Board, Chief Executive
 Officer & Chief Operating Officer
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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Hi-Production Forge Company

6
7 DATED: July 9 , 1990

8
9 BY: H & L Tooth Company

10
11 Name: Richard L. Launder

12
13 Signature: *Richard L. Launder*

14
15 Title: Chairman and CEO

The undersigned Defendant hereby consents to the foregoing
Second Partial Consent Decree concerning the Operating
Industries, Inc. site.

FOR DEFENDANT: CITY OF INGLEWOOD

DATED: AUGUST 3, 1990

BY:

Name: HOWARD ROSTEN

Signature:

Title: CITY ATTORNEY

(

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Inland Container Corporation

6
7 DATED: July 19, 1990

8
9 BY:

10
11 Name: Steven L. householder


12
13 Signature: Steven L. Householder

14
15 Title: Vice President and General Counsel


1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: INTERSTATE BRANDS CORPORATION

6
7 DATED: July 11, 1990

8
9 BY: 
10 Ray Sandy Sutton, Vice President

11 Name: Ray Sandy Sutton

12
13 Signature: 

14
15 Title: Vice President

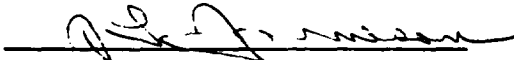
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: BASF Corporation for and on behalf of
 Inmont Ink Corporation

6
7 DATED: 8/3/90

8
9 BY:

10
11 Name: J. L. Jameson

12
13 Signature: 

14
15 Title: President
16 BASF Corporation
 Coatings & Colorants Division

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: KERN FOODS, INC.
SHAREHOLDERS' LIQUIDATING TRUST

6
7 DATED: July 10, 1990

8
9 BY:

10
11 Name: CHARLES KERN

12
13 Signature: 

14
15 Title: TRUSTEE

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: Keysor-Century Corporation

6

7 DATED: August 3, 1990

8

9 BY:

10

11 Name: Howard L. Hill

12

13 Signature: 

14

15 Title: President

16

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CONFIDENTIAL

The undersigned Defendant hereby consents to the foregoing
Second Partial Consent Decree concerning the Operating
Industries, Inc. site.

FOR DEFENDANT: Ladish Pacific Division

DATED: April 30, 1990

BY:

Name: Wayne E. Larsen

Signature: 

Title: General Counsel & Secretary

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4 Latchford Glass Company, Inc.
5 a wholly owned subsidiary of
6 Anchor Glass Container Corporation
7 FOR DEFENDANT: _____

8
9 DATED: August 2, 1990
10 _____
11

12 BY:

13 Name: Richard T. Dawson
14 _____
15

16 Signature: 
17 _____
18

19 Title: Vice President, General Counsel
20 _____
21 Anchor Glass Container Corporation
22
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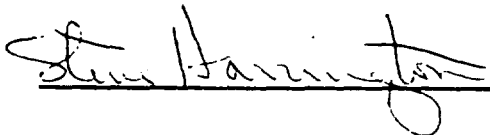
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: CITY OF LOS ANGELES
6

7 DATED: August 10, 1990.
8

9 BY:

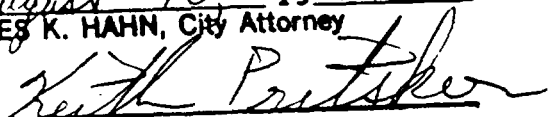
10
11 Name: STEVE HARRINGTON, President
12 BOARD OF PUBLIC WORKS

13 Signature: 
14

15 Title: President
16 COMMISSIONERS OF THE BOARD
17 OF PUBLIC WORKS OF THE CITY
18 OF LOS ANGELES
19
20
21

22 Approved as to Form and Legality

23 August 10, 1990
24 JAMES K. HAHN, City Attorney

25 By 
26 KEITH W. PRITSKER
27 Deputy City Attorney
 LOS ANGELES CITY ATTORNEY'S OFFICE

The undersigned Defendant hereby consents to the foregoing
Second Partial Consent Decree concerning the Operating
Industries, Inc. site.

FOR DEFENDANT: Dresser Industries (Magcobar)
(Pacific Pump)

DATED: 3 August 1990

BY:

Name: Ben R. Stuart

Signature:

Title: Vice President-Operations

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Master Processing Corporation

6
7 DATED: JULY 24, 1990

8
9 BY:

10
11 Name: JOHN MORIARTY

12
13 Signature: John Moriarty

14
15 Title: PRESIDENT

1 The undersigned Defendant hereby consents to the foregoing
2 **Second Partial Consent Decree concerning the Operating**
3 **Industries, Inc. site.**

4 Black & Decker Corporation
5 on behalf of McCulloch Corporation
6 **FOR DEFENDANT:** _____

7 August 3, 1990
8 **DATED:** _____

9 **BY:**

10
11 Name: Charles E. Fenton
12 _____

13 Signature: _____

14
15 Title: Vice President and General Counsel
16 _____


1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Chrysler Corporation, on behalf of
 Nu Car Prep Systems, Inc.

6
7 DATED: July 19, 1990

8
9 BY:

10
11 Name: Michael W. Grice

12
13 Signature: 

14
15 Title: Senior Staff Counsel

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Oil & Solvent Process Co.

6
7 DATED: 6/18/90

8
9 BY:

10
11 Name: R. David McConnell

12
13 Signature: 

14
15 Title: Regional Organics Manager

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

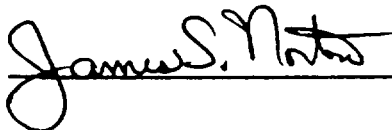
4
5 FOR DEFENDANT: OLYMPIC PAINT & CHEMICAL CO.

6
7 DATED: June 19, 1990

8
9 BY:

10
11 Name: JAMES S. NORTON

12
13 Signature:



14
15 Title: PRESIDENT


1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: PACIFIC TUBE COMPANY
6

7 DATED: August 2, 1990
8

9 BY:

10
11 Name: G. C. McEvoy

12
13 Signature: 
14

15 Title: President
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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: Pervo Paint Company

6

7 DATED: May 9, 1990


8

9 BY:

10

11 Name: Joanne Womack

12

13 Signature: 

14

15 Title: President

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Precision Heat Treating Company

6
7 DATED: July 9 , 1990

8
9 BY: H & L Tooth Company

10
11 Name: Richard L. Launder

12
13 Signature: *Richard L. Launder*

14
15 Title: Chairman and CEO

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: Turco Products, Inc.
6 and Turco Purex Industrial Corp.

7 DATED: June 27, 1990
8

9 BY:

10
11 Name: James L. Marr
12

13 Signature:

14 James L. Marr

15 Title: President - Chemical Specialties Division
16
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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: The Dial Corporation

6
7 DATED: May 9, 1990

8
9 BY:

10
11 Name: Robert E. Wilmoth

12
13 Signature: 

14
15 Title: Associate General Counsel

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: FERRO CORPORATION (Production
6 & Chemical Division)
 1000 Lakeside Avenue

7 DATED: May 30, 1990

8
9 BY:

10
11 Name: Frank A. Carragher

12
13 Signature: Frank A. Carragher

14
15 Title: Group Vice President, Chemicals
16
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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: PRUDENTIAL OVERALL SUPPLY

6

7 DATED: AUGUST 3, 1990

8

9 BY:

10

11 Name: DONALD C. LAHN

12

13 Signature: Donald C. Lahn

14

15 Title: PRESIDENT

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4

5 FOR DEFENDANT: R & D LATEX CORPORATION

6

7 DATED: JULY 20, 1990

8

9 BY:

10

11 Name: WALTER W. LITTLE

12

13 Signature: 

14

15 Title: PRESIDENT

16

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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: RENTA UNIFORM & TOWEL Supply Co.

6
7 DATED: 5/21/1990

8
9 BY:

10
11 Name: ANTHONY RICHMAN

12
13 Signature: 

14
15 Title: PRES

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Rockwell International Corp.

6
7 DATED: July 31, 1990

8
9 BY:

10
11 Name: John R. Stocker

12
13 Signature: 

14
15 Title: Vice President

The undersigned Defendant hereby consents to the foregoing
Second Partial Consent Decree concerning the Operating
Industries, Inc. site.

FOR DEFENDANT: SHASTA BEVERAGES, INC., a division
of Sara Lee Corporation

DATED: July 18, 1990

BY: SHASTA BEVERAGES, INC., a division of
National Beverage Corporation

Name: RAYMOND J. SMITH

Signature:

Title: VICE-PRESIDENT, FINANCE

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Southern California Chemical Company, a
6 Dissolved and Liquidated Corporation

7 DATED: July 17, 1990

8
9 BY:

10
11 Name: E. B. King

12
13 Signature: 

14
15 Title: Former President of Southern California
16 Chemical Company, a Dissolved and Liquidated
17 Corporation

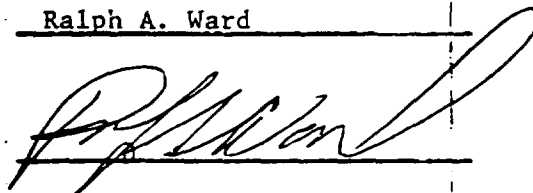
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: STAR-KIST FOODS INC.

6
7 DATED: 19 July 1990

8
9 BY:

10
11 Name: Ralph A. Ward

12
13 Signature: 

14
15 Title: Vice President - Operations
16 StarKist Seafood Company
17 Div. of Star-Kist Foods Inc.

The undersigned Defendant hereby consents to the foregoing Second Partial Consent Decree concerning the Operating Industries, Inc. site.

FOR DEFENDANT: STONE CONTAINER CORPORATION FOR
SOUTHWEST FOREST INDUSTRIES, INC.

DATED: AUGUST 1, 1980

BY:

Name: LESLIE T. LEDERER

Signature: 

Title: VICE PRESIDENT

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: ARTRA GROUP Incorporated (on behalf of previously
6 owned subsidiary defendant - Synkoloid Company)

7 DATED: May 9, 1990
8

9 BY:
10

11 Name: John P. Conroy

12
13 Signature: 
14

15 Title: Vice President, Corporate Administration
16
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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4 FOR DEFENDANT: Teledyne Linair

5 Signature: W. P. Rutledge

6
7 Name : William P. Rutledge

8
9 Title : President

10
11 Date : July 18, 1990

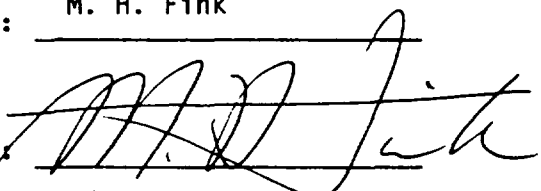
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Teledyne Microelectronics

6
7 DATED: 13 July 1990

8
9 BY:

10
11 Name: M. H. Fink

12
13 Signature: 

14
15 Title: President

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: TELEDYNE POST

6
7 DATED: 7/15/80

8
9 BY:

10
11 Name: JOSEPH C. D'ANNUNZIO

12
13 Signature: J. C. D'Annunzio

14
15 Title: PRESIDENT

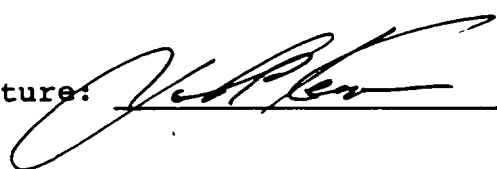
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Teledyne Laars

6
7 DATED: July 24, 1990

8
9 BY:

10
11 Name: John P. Kempton

12
13 Signature: 

14
15 Title: PRES TELEDYNE LAARS

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: TELEDYNE CAST PRODUCTS

6
7 DATED: JULY 16, 1990

8
9 BY:

10
11 Name: ROSS K. ANDERSON

12
13 Signature: *RK Anderson*

14
15 Title: PRESIDENT, TELEDYNE CAST PRODUCTS

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.
4

5 FOR DEFENDANT: Teledyne Sprague Engineering
6

7 DATED: July 16, 1990
8

9 BY:

10
11 Name: Floyd W. Luher
12

13 Signature: Floyd W. Luher
14

15 Title: President
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1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: VOI-SHAN

6
7 DATED: 5/1/90

8
9 BY: HERBERT J. TOLCHINSKY

10
11 Name: DONALD S. PARKER

12
13 Signature: 

14
15 Title: V.P. AND DEPUTY GENERAL COUNSEL

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: Alcoa/TRE on behalf of
 WESLOCK DIVISION

6
7 DATED: August 1, 1990

8
9 BY:

10
11 Name: L. Bruce James

12
13 Signature: 

14
15 Title: President, Alcoa/TRE


The undersigned Defendant hereby consents to the foregoing Second Partial consent Decree concerning the Operating Industries, Inc. site.

FOR DEFENDANT: Western Chemical & Manufacturing Co.

DATED: August 2, 1990

BY: SOCO-WESTERN CHEMICAL CORPORATION

Name: Gregory M. Bernosk

Signature: 

Title: PRESIDENT, SOCO-WESTERN CHEMICAL CORPORATION

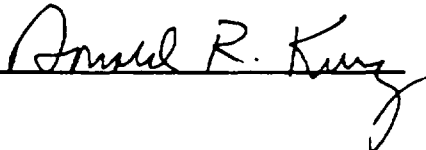
1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: WILMINGTON LIQUID BULK TERMINALS, INC.

6
7 DATED: JULY 18, 1990

8
9 BY:

10
11 Name: DONALD R. KURZ

12
13 Signature: 

14
15 Title: PRESIDENT

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.


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FOR DEFENDANT: Zolatone Process, Inc.

DATED: 7/30/90

BY:

Name: Robert C. Davidson, Jr.

Signature: 

Title: President

1 The undersigned Defendant hereby consents to the forego:
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: DECALTA INTERNATIONAL CORPORATION

6
7 DATED: March 8, 1991


8
9 BY:

10
11 Name: LORNE B. GORDON

12
13 Signature: 

14
15 Title: PRESIDENT

16
17 Name: D. J. WATKINSON

18 Signature: 

19
20 Title: SECRETARY & GENERAL COUNSEL

21
22
23
24
25
26
27

1 The undersigned Defendant hereby consents to the foregoing
2 Second Partial Consent Decree concerning the Operating
3 Industries, Inc. site.

4
5 FOR DEFENDANT: INDAL INC. (successor to ROYAL ALUMINUM, INC.)

6
7 DATED: 10 MAY 1991

8
9 BY: 

10
11 Name: ROBERT B. LECKIE

12
13 Signature: 

14
15 Title: SECRETARY

EXHIBIT A

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21 Sacramento, California 94244-2550
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22 Attorneys for Plaintiff State of California, on behalf of the
Department of Health Services and Hazardous Substance Account

24 UNITED STATES DISTRICT COURT
FOR THE CENTRAL DISTRICT OF CALIFORNIA

25 UNITED STATES OF AMERICA, THE STATE
26 OF CALIFORNIA, and THE CALIFORNIA
HAZARDOUS SUBSTANCE ACCOUNT

27 Plaintiffs,
28 v.

No. CV 88 7196 MRP(Kx)

PARTIAL CONSENT DECREE

1 CHEVRON CHEMICAL COMPANY,
CHEVRON PIPE LINE CO.,
2 CHEVRON USA, INC.,
ATLANTIC RICHFIELD COMPANY,
3 including ANACONDA AMERICAN
BRASS DIVISION,
4 AMERICAN NATIONAL CAN,
TEXACO INC., including RICHFIELD
5 EAST DOME UNIT and SIGNAL HILL
WEST UNIT and Subsidiaries,
6 EXXON CORPORATION,
MCDONNELL DOUGLAS CORPORATION,
7 UNOCAL CORPORATION,
NI INDUSTRIES, INC. for MORRIS, INC.,
8 SUN EXPLORATION & PRODUCTION COMPANY,
OCCIDENTAL PETROLEUM CORPORATION,
9 MOBIL OIL CORPORATION including
SUPERIOR OIL COMPANY,
10 SOUTHERN CALIFORNIA GAS COMPANY,
KIEWIT CONTINENTAL, INC. for
11 CONTINENTAL CAN,
SHELL OIL COMPANY,
12 SANTA FE ENERGY COMPANY/CHAMSLOR
WESTERN OIL DEVELOPMENT,
13 MARTIN MARIETTA CORPORATION for
MARTIN MARIETTA CARBON INC., and
14 COMMONWEALTH ALUMINUM CORPORATION
(formerly known as MARTIN
15 MARIETTA ALUMINUM, INC.),
UNION PACIFIC RESOURCES COMPANY
16 for CHAMPLIN PETROLEUM CO.,
SOULE'-ARNON LIQUIDATING AGENCY,
17 CONOCO, INC.,
DOUGLAS OIL COMPANY OF CALIFORNIA,
18 GENERAL MOTORS CORPORATION,
LONG BEACH OIL DEVELOPMENT COMPANY,
19 LOCKHEED AERONAUTICAL SYSTEMS
COMPANY a division of LOCKHEED
20 CORPORATION,
INTERFACE CORPORATION,
21 ALUMINUM COMPANY OF AMERICA,
SOUTHERN CALIFORNIA RAPID TRANSIT
22 DISTRICT,
STROM CONTAINER COMPANY for JOSEPH
23 SCHLITZ BREWING COMPANY
ALLIED-SIGNAL, INC. for GARRETT
24 AIRSEARCH,
AMERICAN AIRLINES, INC.,
25 BETZ LABORATORIES, INC.,
BETHLEHEM STEEL CORPORATION,
26 INSILCO CORPORATION for SINCLAIR
PAINT COMPANY,
27 DEPARTMENT OF WATER AND POWER of
the CITY of LOS ANGELES,
28 ///

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1 QUANTUM CHEMICAL CORPORATION,
ENERGY DIVISION,
2 SOUTHERN CALIFORNIA EDISON COMPANY,
REYNOLDS METALS COMPANY,
3 CALGON CORPORATION/CALGON VESTAL
LABORATORIES,
4 UNITED STATES BRASS CORPORATION
for EASTMAN CENTRAL,
5 LONG BEACH UNIT, WILMINGTON OIL
FIELD, CALIFORNIA (CITY OF LONG
6 BEACH, UNIT OPERATOR: THURS LONG
BEACH COMPANY, AGENT FOR FIELD
7 CONTRACTOR),
8 MITCHELL ENERGY CORPORATION,
BURG-WARNER CORPORATION for BYRON
JACKSON PUMP DIVISION,
9 INGERSOLL-RAND COMPANY for PHOTO
TOOL,
10 SOUTHWEST PROCESSORS, INC. for
SOUTHWEST PROCESSORS, INC. and
11 ANEROIL,
LIBERTY VEGETABLE OIL COMPANY,
12 EDGINGTON OIL COMPANY,
REICHOLD CHEMICALS, INC.,
13 CROWLEY MARITIME CORPORATION for
CROWLEY TOWING & TRANSPORTATION
14 CO. and CROWLEY ENVIRONMENTAL
SERVICES CORPORATION,
15 MENASCO, INC.,
USC CORPORATION for HOLLYTEX CARPET
16 MILLS,
XEROX CORPORATION,
17 MAJOR PAINT COMPANY,
SOUTHERN PACIFIC TRANSPORTATION
18 COMPANY,
TRW INC.,
19 COOPER DRUM COMPANY for SUPERIOR
DRUM,
20 ANCHORLOK CORP. for ANCHORLOK LEAR
SIEGLER CORP. and ROYAL
21 INDUSTRIES, INC.,
SUPERIOR INDUSTRIES
22 INTERNATIONAL, INC.,
FLINT INC CORPORATION,
23 BEATRICE/HUNT WESSON,
FRANCISCAN CERAMICS, INC.,
24 EMERSON & CONING INC.,
THE TIMES MIRROR COMPANY for
15 LOS ANGELES TIMES and TIMES
MIRROR PRESS,
26 PPC INDUSTRIES, INC.,
PARKER-HANNIFIN CORPORATION for
27 BERTHA CORPORATION,
DELTA AIR LINES, INC. for WESTERN
28 AIRLINES,

1 SOUTHWESTERN ENGINEERING CO.,
THE UNIMOVAL GOODWICH TIRE
2 COMPANY,
INTERNATIONAL PAPER COMPANY,
3 ARATEX SERVICES, INC. for RED STAR
INDUSTRIAL SERVICE,
4 MAYTAG CORPORATION for GAFFERS &
BATTLER,
5 CARNATION COMPANY,
WELCH'S OVERALL CLEANING
6 COMPANY, INC. for WELCH'S
INDUSTRIAL UNIFORM,
7 GENERAL FELT INDUSTRIES, INC., a
division of KNOLL INTERNATIONAL
8 HOLDINGS, INC.,
WILLAMETTE INDUSTRIES INC. for
9 WESTERN KRAFT,
TRANSPORTATION LEASING CO. for THE
10 GREYHOUND CORP.,
NL INDUSTRIES, INC. for NL METALS,
11 McAULEY LCN CORPORATION,
UNITED AIR LINES, INC.,
12 THE PROCTOR & GAMBLE MANUFACTURING
COMPANY,
13 JAYBEE MANUFACTURING CORPORATION,
SAFEMAY STORES, INC.,
14 THE FLYING TIGER LINE INC.,
LUXFER USA LIMITED,
15 TREE ISLAND INDUSTRIES LTD.,
GENERAL LATEX AND CHEMICAL CORP.,
16 ARMCO INC.,
REISNER METALS, INC.,
17 GATX TERMINALS CORPORATION,
DUNN-EDWARDS CORPORATION,
18 HUGHES AIRCRAFT COMPANY,
THE FIRESTONE TIRE & RUBBER COMPANY,
19 MAX FACTOR & COMPANY,
UNITED PARCEL SERVICE OF AMERICA,
20 INCORPORATED,
CALMAT CO. for CONROCK CO.,
21 SUPRACOTE, INC.,
FPCO OIL & GAS CO. for PETRO-LEWIS
22 CORPORATION,
VAN MATERS & ROGERS,
23 DAVIDSON P.W.P.,
KEMOSHA AUTO TRANSPORT CORPORATION,
24 AMERICAN CAN COMPANY/PRINERICA
CORPORATION,
25 BORDEN, INC.,
DEFT, INC.,
26 COCA-COLA BOTTLING COMPANY OF LOS
ANGELES,
27 OWENS-ILLINOIS, INC.,
CHAMPION INTERNATIONAL CORPORATION
28 for ST. REGIS,

-46-

1	HYDRIL COMPANY,)
2	GEORGIA-PACIFIC CORPORATION,)
3	LEVER BROTHERS COMPANY, INC.,)
4	7UP/RC BOTTLING COMPANIES OF)
5	SOUTHERN CALIFORNIA,)
6	INTERNATIONAL EXTRUSION CORP.,)
7	SPARKLETT'S DRINKING WATER)
8	CORPORATION,)
9	BJ-TITAN SERVICES COMPANY, for)
10	B.J. SERVICES EQUIPMENT COMPANY,)
11	LONGVIEW FIBRE COMPANY,)
12	UNION CARBIDE CORPORATION,)
13	THE COCA-COLA COMPANY,)
14)
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Defendants.

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PARTIAL CONSENT DECREE

WHEREAS, the United States of America (hereinafter "United States"), on behalf of the Administrator of the United States Environmental Protection Agency (hereinafter "EPA"), has filed concurrently with this Partial Consent Decree a complaint in this matter pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499, 100 Stat. 1613 (1986) (hereinafter "CERCLA"), seeking to compel the Defendants (those parties identified in Section II (Parties) of this Partial Consent Decree, and hereinafter referred to as "Defendants") to perform certain remedial actions and to recover certain response costs that have been and will be incurred by the United States in response to alleged releases and threatened releases of hazardous substances from the landfill known as the Operating Industries, Inc. site (hereinafter "OII" or the "Site") located at 900 Potrero Grande Drive, Monterey Park, California.

WHEREAS, the State of California, on behalf of the Department of Health Services (hereinafter "the State") has filed concurrently with this Partial Consent Decree a complaint in this matter pursuant to CERCLA, the Hazardous Substance Account, California Health and Safety Code §§ 25300, et seq., California Civil Code § 3494, and California Health and Safety Code §§ 205 and 206 seeking to compel the Defendants to perform certain remedial actions and to recover certain response costs that have

1 been incurred by the State in response to alleged releases and
2 threatened releases of hazardous substances from the Site.

3
4 WHEREAS, the United States and the State allege that the
5 Operating Industries, Inc. landfill is a facility as defined in
6 Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

7
8 WHEREAS, the United States and the State allege that the
9 Defendants are persons, as defined in Section 101(21) of CERCLA,
10 42 U.S.C. § 9601(21), and California Health and Safety Code
11 § 25319 and that wastes and constituents thereof generated by the
12 Defendants sent to and disposed of at the Site, are "hazardous
13 substances," as defined in Section 101(14) of CERCLA, 42 U.S.C.
14 § 9601(14), and California Health and Safety Code §§ 25316 and
15 25317.

16
17 WHEREAS, the United States and the State allege that the
18 past, present, and potential migrations of hazardous substances
19 from the Site constitute actual and threatened "releases," as
20 defined in Section 101(22) of CERCLA, 42 U.S.C. § 9601(22), and
21 California Health and Safety Code §§ 25320 and 25321, and further
22 allege that the Defendants are persons subject to liability under
23 Section 107(a) of CERCLA, 42 U.S.C. § 9607(a), and California
24 Health and Safety Code § 25360.

25
26 WHEREAS, pursuant to Sections 121 and 122 of CERCLA, the
27 United States, the State and the Defendants have each stipulated
28 and agreed to the making and entry of this Partial Consent Decree

1 (hereinafter "Decree" or "Consent Decree") prior to the taking of
2 any testimony, and in full settlement of the claims raised in the
3 complaints.

4
5 WHEREAS, the United States, the State and the Defendants
6 have agreed upon a settlement pursuant to which certain
7 Defendants are obligated to conduct certain remedial work and to
8 make payments to the EPA and the State, and other Defendants are
9 obligated to make payments to the EPA and the State.

10
11 WHEREAS, the United States, the State and the Defendants
12 agree that the settlement of the claims raised in the complaints
13 and entry of this Consent Decree is in good faith, in an effort
14 to avoid expensive and protracted litigation, without any
15 admission or finding of liability or fault as to any allegation
16 or matter.

17
18 NOW THEREFORE, it is ORDERED, ADJUDGED, AND DECREED as
19 follows:

20
21 I. JURISDICTION

22
23 The Court has jurisdiction over the subject matter of this
24 action and the signatories to this Decree pursuant to CERCLA, 42
25 U.S.C. §§ 9601, et seq. and 28 U.S.C. §§ 1331, 1345, and pendent
26 jurisdiction over the claims arising under the laws of
27 California. The Defendants shall not challenge the Court's
28 jurisdiction to enter and enforce this Decree. Defendants listed

-16-

1 In Section II (Parties) waive service of summons and, for the
2 purpose of this Decree, agree to submit themselves to the
3 jurisdiction of this Court.

4 5 **II. PARTIES**

6
7 A. The Parties to this Decree are the United States of
8 America, the State, the California Hazardous Substance Account
9 and the Defendants. All actions taken by the State pursuant to
10 this Decree, including all approvals, reservations of rights, and
11 covenants not to sue are solely those of the California
Department of Health Services (DHS) and of no other agency except
13 that the California Attorney General also covenants not to sue
14 the Defendants, as provided in Section XXX (Covenant Not to Sue).
15 Defendants are those entities listed herein.

16
17 B. Settling defendants are either defendants that have
18 agreed to pay the specified amounts under the Schedules set forth
19 in Attachment A and are identified in Attachment A ("Cash
20 Defendants"), or other settling defendants that have agreed to
21 undertake the Work and certain other obligations set forth in
22 this Decree and are identified in Attachment B ("Work
23 Defendants").

24 25 **III. DENIAL OF LIABILITY**

26
27 The Defendants deny any and all legal or equitable liability
28 under any federal, state, or local statute, regulation,

1 ordinance, or common law for any response costs, damages or
2 claims caused by or arising out of conditions at or arising from
3 the OII Site. By entering into this Decree, or by taking any
4 action in accordance with it, Defendants do not admit any
5 allegations contained herein or in the complaints, nor do
6 Defendants admit liability for any purpose or admit any issues of
7 law or fact or any responsibility for the alleged release or
8 threat of release of any hazardous substance into the
9 environment. Nothing in this Section shall alter Defendants'
10 agreement not to challenge the Court's jurisdiction as set forth
11 in Section I (Jurisdiction).

12 13 **IV. BINDING EFFECT**

14
15 This Decree shall apply to and be binding upon the
16 signatories, their successors, and assigns. No change in
17 ownership or corporate or partnership status shall in any way
18 alter the Defendants' responsibilities under this Decree. Each
19 Defendant shall be responsible and shall remain responsible for
20 carrying out all activities required of that particular Defendant
21 under this Decree. The Work Defendants shall provide a copy of
22 this Decree, as entered, and shall provide all relevant additions
23 to the Decree, as appropriate, to each person, including all
24 contractors and subcontractors, retained to perform the Work
25 contemplated by this Decree, and shall condition any contract for
26 the Work upon compliance with this Decree.

27 ///

28 ///

1 Work Defendants shall be jointly and severally responsible
2 for the performance of the Work Defendants' obligations outlined
3 in this Decree. In the event of the inability to pay or
4 insolvency of any one or more of the Work Defendants, regardless
5 of whether or not that Work Defendant or Work Defendants enter
6 into formal bankruptcy proceedings, or in the event that for any
7 other reason one or more of the Work Defendants do not
8 participate in the implementation of the Work, the remaining Work
9 Defendants agree and commit to complete the Work and activities
10 provided for in this Decree.

11
12 V. SITE BACKGROUND
13

14 The following is a summary of the Site background as alleged
15 by the United States and the State which, for the purposes of
16 this Decree, Defendants neither admit nor deny:
17

18 A. The Operating Industries, Inc. landfill is a 190-acre
19 facility, as that term is defined in Section 101(9) of CERCLA, 42
20 U.S.C. § 9601(9), located at 900 Potrero Grande Drive, Monterey
21 Park, California. The Site operated from 1948 through 1984, and,
22 over the course of its operation, accepted industrial solid,
23 liquid and hazardous wastes and municipal trash. Wastes accepted
24 at the OII Site include hazardous substances as defined in
25 Section 101(14) of CERCLA, 42 U.S.C. § 9601(14) and California
26 Health and Safety Code §§ 25316 and 25317.

27 ///

28 ///

1 B. The Site is located on the southwestern flank of the La
2 Merced hills (also called the Montebello hills), and is divided
3 by the California Highway 60 (Pomona Freeway), which runs roughly
4 east-west through the Site, dividing it into a 45-acre North
5 Parcel and 145-acre South Parcel. The Site is located at the
6 boundary between the San Gabriel groundwater basin to the north
7 and the Los Angeles Coastal groundwater basin to the south. The
8 important water-bearing units underlying the Los Angeles and San
9 Gabriel Basins, as well as the Site, are from oldest to youngest,
10 upper Pliocene Pico Formation, lower Pleistocene San Pedro
11 Formation, upper Pleistocene older alluvium (including "terrace
12 gravels"), and the Recent Alluvium (California Department of
13 Water Resources, 1961, 1966). The San Pedro Formation contains
14 the five major aquifers of the Los Angeles Coastal Plain and the
15 San Gabriel Basin, the Jackson, Mollydale, Lynwood, Silverado and
16 Sunnyside aquifers. The lower Pliocene Repetto formation and
17 older formations are found at depths greater than 1500 feet. The
18 Site is approximately one mile east of the Whittier Narrows
19 groundwater recharge area and the Rio Nondo River.

20
21 C. The Site was proposed for inclusion on the National
22 Priorities List (NPL) in October, 1984, and was subsequently
23 placed on the NPL in May, 1986, in accordance with
24 Section 105(a)(8) of CERCLA, 42 U.S.C. § 9605(a)(8).
25

26 D. The contaminants found at the Site include hazardous
27 substances as defined by CERCLA § 101(14) or as defined by
28 California Health and Safety Code §§ 25316 and 25317.

1 E. There have been releases of hazardous substances from
2 the Site and the Site poses numerous threats to human health and
3 the environment. The population in proximity to the Site include
4 the nearby residents of the City of Montebello and the City of
5 Monterey Park, those who travel on the section of the Pomona
6 Freeway which transects the Site, and workers in the several
7 businesses located on or near the Site.

8
9 F. EPA is currently performing the Remedial Investigation/
10 Feasibility Study ("RI/FS") at the Site. The RI/FS was begun in
11 1984. Phases I and II of this study have been largely completed,
12 and EPA is currently finishing Phase II and initiating Phase III
13 of the RI. When the RI/FS is completed, it will result in the
14 selection, design and implementation of a final overall remedy
15 for the Site.

6 7 VI. PURPOSE

8
9 The purpose of this Decree is to resolve the dispute among
10 the Parties as to whether remedial action may be necessary for
11 the Leachate Management and Site Control and Monitoring Operable
12 Units, (as described in Appendices A and B) to protect the public
13 health, welfare, and the environment from conditions which may be
14 present at the OII Site; obtain reimbursement from the Defendants
15 for certain of Plaintiffs' response costs; and settle any and all
16 claims against Defendants asserted by Plaintiffs in the
17 complaints filed in this matter.

18
19 ///

PARTIAL CONSENT DECREE

8

1 This Decree is also intended to serve the public interest by
2 protecting the public health, welfare, and the environment from
3 alleged releases and threatened releases of hazardous substances
4 at or from the OII Site by the implementation by the Work
5 Defendants of remedial actions and operations, monitoring, and
6 maintenance outlined in Section IX (Work to be Performed) of this
7 Decree.

8
9 The Parties recognize that the final remedy will be
10 determined after completion of the RI/FS and execution by the EPA
11 of a Record of Decision which determines the final remedy. All
12 Parties agree and the Court hereby determines that the remedies
13 selected by the Records of Decision which are the subject of this
14 Decree are consistent with the final remedy and are consistent
15 with the National Oil and Hazardous Substances Pollution
16 Contingency Plan, 40 C.F.R. Part 300 (hereinafter "National
17 Contingency Plan" or "NCP"). The Work performed in the
18 implementation of these Operable Units shall meet the substantive
19 standards of all "applicable requirements" and "relevant and
20 appropriate requirements" as those terms are defined in 40 C.F.R.
21 § 300.6, as generally described in CERCLA Compliance with Other
22 Environmental Statutes, October 2, 1985 (50 Fed. Reg. 47946,
23 November 20, 1985), as required by Section 121 of CERCLA, 42
24 U.S.C. § 9621, and as provided in Appendices A and B to this
25 Decree.

26 ///

27 ///

28 ///

PARTIAL CONSENT DECREE

9

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VII. DEFINITIONS

A. "Appendix A" shall mean the Record of Decision for the Leachate Management Operable Unit.

B. "Appendix B" shall mean the Record of Decision for the Site Control and Monitoring Operable Unit.

C. "Appendix C" shall mean the OII Landfill SCM and LMS Scope of Work.

D. "CERCLA" shall mean the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. § 9601, et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499, 100 Stat. 1613 (1986).

E. "Contractor" shall mean the individual, company or companies retained by or on behalf of the Work Defendants to undertake and complete the Work. Each contractor and subcontractor shall be qualified to do those portions of the Work for which it is retained.

F. "Costs" or "Response Costs" shall mean oversight, administrative, enforcement, removal, investigative and remedial or other expenses incurred or to be incurred by EPA or the State relative to the OII Site.

///

G. "Construction" shall mean the phases of the Work involving the construction of the remedy, in accordance with the Design documents, the RODs and this Decree.

H. "Covered Matters" shall mean those conditions which the alternatives selected in the RODs (attached as Appendices A and B) are designed to remedy, the Work implemented under Section IX (Work to be Performed), oversight costs associated with the performance of that Work and for all past response costs, including interest accrued thereon, incurred by the United States, the State and the California Hazardous Substance Account up to June 1, 1988. Covered Matters specifically do not include removals, remedial actions which will be implemented pursuant to the final remedy, the gas control and any future operable unit(s), or any environmental condition which is identified in the RI/FS (except to the extent those removals, remedial actions, or those environmental conditions are already covered by Appendices A or B or the Work). The Parties also agree that remedial actions for groundwater contamination, if any, are not Covered Matters under this Decree.

I. "DHS" shall mean the California Department of Health Services.

J. "Defendants" shall include both the Cash Defendants and the Work Defendants. "Cash Defendants" shall mean those parties identified as Defendants and listed as such in Attachment A to this Decree. "Work Defendants" shall mean those parties

1 identified as Defendants and listed as such in Attachment B to
2 this Decree.
3

4 K. "Design(s)" shall mean the phases of the Work wherein
5 engineering plans and technical specifications are developed for
6 implementation of the remedial actions, in accordance with the
7 RODs and this Decree and the EPA Superfund Remedial Design and
8 Remedial Action Guidance, (EPA OSWER Directive No. 9355.0-4A,
9 June 1986) ("RD/RA guidance").
10

11 L. "EPA" shall mean the United States Environmental
12 Protection Agency.
13

14 M. "Environment" shall mean (1) the navigable waters, the
15 waters of the contiguous zone, and the ocean waters of which the
16 natural resources are under the exclusive management of the
17 United States under the Fishery Conservation and Management Act,
18 and (2) any other surface water, groundwater, drinking water
19 supply, land surface or subsurface strata, or ambient air within
20 the United States or under the jurisdiction of the United States,
21 as defined in Section 101(8) of CERCLA, 42 U.S.C. § 9601(8).
22

23 N. "Hazardous substances" shall mean any substance included
24 in the definition of Section 101(14) of CERCLA, 42 U.S.C.

25 § 9601(14), or as defined by California Health and Safety Code
26 §§ 25316 and 25317.
27
28

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1 O. "National Contingency Plan" or "NCP" shall refer to the
2 National Oil and Hazardous Substances Pollution Contingency Plan,
3 40 C.F.R. Part 300, and shall be used as that term is referred to
4 in Section 105 of CERCLA, 42 U.S.C. § 9605.
5

6 P. "Oil Site" or the "Site" shall mean the landfill located
7 at 900 Potrero Grande Drive, in Monterey Park, California.
8

9 Q. "Oversight" shall mean inspection by the EPA, the United
10 States Army Corps of Engineers (USACE), the State, or their
11 representatives, of remedial work and all other actions necessary
12 to verify the adequacy of performance of activities and reports
13 relating to the Oil Site.
14

15 R. "Parties" shall mean the United States, the State and
16 the Defendants.
17

18 S. "Plaintiffs" shall mean the United States, the State,
19 and the California Hazardous Substance Account.
20

21 T. "Plan(s)" shall mean the plans developed by the Work
22 Defendants which detail the elements of Work to be conducted
23 pursuant to this Decree.
24

25 U. "Records of Decision" or "RODs" shall mean the documents
26 signed by the EPA Region IX Deputy Regional Administrator on July
27 31, 1987, and November 16, 1987 which describe the remedial
28

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1 actions of two of the Operable Units to be conducted at the Site,
2 and which are attached hereto as Appendices A and B.

3
4 V. "Release" shall mean any spilling, leaking, pumping,
5 pouring, emitting, emptying, discharging, injecting, escaping,
6 leaching, dumping, or disposing into the environment (including
7 the abandonment or discarding of barrels, containers, and other
8 closed receptacles containing any hazardous substance or
9 pollutant or contaminant) as defined in Section 101(22) of
10 CERCLA, and California Health and Safety Code §§ 25320 and 25321.

11
12 W. "Report(s)" shall mean the reports developed by the Work
13 Defendants in compliance with this Decree, detailing the Work and
14 the results of its implementation.

15
16 X. "State" shall mean the State of California on behalf of
17 the Department of Health Services.

18
19 Y. "United States" shall mean the United States of America.

20
21 Z. "USACE" shall mean the United States Army Corps of
22 Engineers.

23
24 AA. "Work" shall mean performance of the remedial
25 alternatives selected in the Leachate Management and the Site
26 Control and Monitoring RODs, and actions approved pursuant to the
27 provisions of Section IX (Work to be Performed) herein, and
28 Appendix C.

1 BB. "Work Completion Report" shall mean the report developed
2 by the Work Defendants in compliance with this Decree, detailing
3 the Work performed pursuant to this Decree.

4
5 **VIII. PAYMENTS BY CASH DEFENDANTS**

6
7 Each Cash Defendant listed in Attachment A shall make
8 payments to EPA and the State as set forth in Attachment A.
9 Except as specifically provided for in Attachment A, all payments
10 shall be made within thirty (30) days of notice of entry of this
11 Decree.

12
13 Any such payments set forth in Attachment A not scheduled to
14 be paid within thirty (30) days of notice of entry of this Decree
15 shall be secured by a surety bond, a letter of credit or other
16 security device acceptable to EPA, which shall be delivered to
17 EPA within thirty (30) days of notice of entry of this Decree.
18 The payments of such amounts shall fully relieve each Cash
19 Defendant of its responsibility for Covered Matters and shall
20 entitle each Cash Defendant to Contribution Protection under
21 Section XXIX (Contribution Protection) and to the Covenant Not to
22 Sue under Section XXX (Covenant Not to Sue) with respect to all
23 such Covered Matters, whether or not the other Defendants fulfill
24 their obligations under this Decree. If EPA and the State do not
25 receive all payments on behalf of any Cash Defendant under this
26 Decree, that Defendant shall not be entitled to any benefits of
27 this Decree, including those under the provisions of Section XXIX
28 (Contribution Protection) and Section XXX (Covenant Not to Sue).

The Work Defendants shall have no responsibility to the United States, EPA, the State, the California Hazardous Substance Account, any other Defendant, or any third party for any payment required of, or failure to pay by, any Cash Defendant under this Section.

IX. WORK TO BE PERFORMED

A. General Obligations Regarding the Work

1. The Work Defendants shall finance and perform, as set forth in this Decree, the implementation of the Work as required by this Decree and Attachments and Appendices hereto.

2. Notwithstanding any approvals which may be granted by the EPA, the State, or other governmental entities, the Work Defendants shall not be relieved of any and all liability, if any, which may arise from or relate to their acts or omissions or the acts or omissions of any of their contractors, subcontractors, or any other person acting on their behalf in the performance of the Work or their failure to perform or complete the Work.

3. The Work Defendants shall design, implement, and complete the Work in accordance with the MCP, and with the standards, specifications, and schedule of completion set forth in or approved by the EPA pursuant to this Section. The Court finds and the Parties agree that the Records of Decision, as set

forth in Appendices A and B, and the Work if performed in compliance with the requirements of this Decree, are consistent with the MCP.

4. All activities undertaken by any Defendant pursuant to this Decree shall be undertaken in accordance with the requirements of all applicable state and federal laws, regulations, and all "applicable" and "relevant and appropriate" federal and state environmental requirements as identified pursuant to Section XV (Compliance with Applicable Laws and Regulations).

5. The Work Defendants shall select a contractor or contractors to conduct the Work which has expertise in investigation, analysis and remediation of hazardous waste problems, with particular expertise in site control and monitoring activities as well as the qualifications to design, construct, operate and maintain a leachate treatment plant. All Work performed by the Work Defendants shall be performed by qualified contractors in accordance with the conditions and schedules specified in this Decree. EPA will contract with a qualified person to oversee and review the conduct of the Work performed by Work Defendants.

6. Except where noted otherwise, all dates referred to in this Decree or any Attachments and Appendices to the Decree are calendar days; however, should a deadline fall on a weekend or a

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1 federal holiday, the deadline shall be construed to continue to
2 the next business day.

3
4 7. While the Work Defendants may collect, treat, stage, and
5 secure materials on-site, they may only redeposit material back
6 into the site with the explicit approval of EPA.

7
8 8. The Work Defendants shall dispose of any materials taken
9 off-site in accordance with the EPA's Revised Procedures for
10 Implementing Off-site Response Actions ("Off-site Policy") (EPA
OSWER Directive 9034.11, November 13, 1997), if applicable.

11
12 9. The Work Defendants shall submit all required reports
13 pursuant to the provisions of Appendix C, this Section and
14 Section XVI (Data Exchange).

15
16 10. The treatment facility constructed under the terms of
17 this Decree shall not be used to treat wastes other than those
18 associated with the OII Site.

19
20 11. EPA will make available to Work Defendants relevant EPA
21 Region IX guidance documents.

22
23 12. If EPA disapproves work being performed by Work
24 Defendants, the Work Defendants shall have ten (10) days from
25 receipt of such disapproval, if necessary, to correct the work,
26 or a longer period if deemed appropriate by EPA.

27
28 ///

PARTIAL CONSENT DECREE 18

1 B. Work To Be Undertaken

2
3 This Work and the applicable schedule and required
4 deliverables are described more fully in the OII Landfill SCM/LMS
5 Scope of Work ("Scope of Work"), attached as Appendix C to this
6 Decree. The Records of Decision for the Operable Units addressed
7 in this Decree are set forth in Appendices A and B. In general
8 terms, the Leachate Management Operable Unit involves design,
9 construction and operation of a Leachate Treatment System (as
10 defined in Appendix C) ("LTS"). The Site Control and Monitoring
11 Operable Unit is intended to stabilize the OII Site during the
12 period before the final remedy for the Site is implemented. It
13 involves operation, monitoring and maintenance of environmental
14 systems at the Site.

15
16 1. Site Control and Monitoring

17
18 The objective of the Site Control and Monitoring ("SCM")
19 activities is to stabilize the OII Site during the period prior
20 to implementation of the final remedy for the Site. These
21 activities include control, maintenance, and monitoring of all
22 systems at the Site, and system improvements. These systems
23 include: gas extraction and the air dike, leachate collection
24 and treatment, irrigation, access roads, stormwater drainage,
25 site security, and slope repair and erosion control. EPA will
26 retain responsibility for site security. The SCM activities will
27 be conducted in accordance with the EPA Site Control and

28 ///

PARTIAL CONSENT DECREE 19

1 Monitoring Record of Decision, dated July 31, 1987 (attached
2 hereto as Appendix B).

3
4 **2. Leachate Management**

5
6 The Leachate Management Operable Unit includes predesign,
7 design, and construction of an onsite leachate treatment plant;
8 and operation of the treatment plant following its completion.
9 The objective of remedial predesign and design is to develop a
10 complete design report, including complete design plans and
11 specifications for a leachate treatment facility and its related
12 facilities, including necessary pipelines. The leachate
13 treatment facility will be located on the north parcel of the OII
14 Site and will be designed consistent with the EPA Leachate
15 Management Record of Decision, dated November 16, 1987 (attached
16 hereto as Appendix A). The on-site treatment facility will be
17 used to treat leachate and other liquids associated with the OII
18 Site. The treatment facility will be designed to provide the
19 flexibility required to treat varying qualities of liquids, and
20 to allow for expansion to treat increased volumes of leachate or
21 other liquids related to the OII Site as needed.

22
23 The objective of leachate treatment plant construction is to
24 construct a complete functional treatment facility, and any
25 related facilities specified in the Final LTS Design, as defined
26 in Appendix C. The Work Defendants shall be responsible for
27 furnishing, in accordance with the Final LTS Design, all plant,
28 labor, equipment, and materials required for the treatment

1 facility, and related facilities at the OII Site, and shall
2 ensure that all facilities are complete and functional.

3
4 Final Design documents for Site Control and Monitoring and
5 Leachate Management, which shall include plans, specifications,
6 construction schedules, and other pertinent information, shall be
7 submitted to EPA in accordance with the schedule in Appendix C of
8 this Decree.

9
10 **C. Funding Limitations to Work**

11
12 The Parties agree with respect to the Work to be performed
13 under this Section that the Work Defendants' obligation to expend
14 Work Defendants' funds for (1) the Leachate Management System (as
15 described in Appendix C) shall not exceed \$14,000,000 and
16 (2) Site Control and Monitoring not relating to leachate
17 management (as described in Appendix C) shall not exceed
18 \$20,000,000, except as otherwise provided in this Paragraph C.

19
20 In the event that Work Defendants' funds referenced in the
21 previous sentence are exhausted in the performance of the Work to
22 be performed under this Decree, the Work shall also be funded
23 pursuant to the provisions of Section VIII (Payments by Cash
24 Defendants), Section X (Escrow Account) herein and Attachment A
25 hereto, and Work Defendants agree to continue to perform the Work
26 until these additional funds, if any, and any funds received
27 pursuant to EPA's direction or from EPA, if any, are exhausted,
28 or until nine months after the date the ROD for the final Site

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1 remedy has been signed, or eight (8) years after the effective
2 date of this Decree, whichever is earliest. Upon the occurrence
3 of the earliest event described in the preceding sentence, the
4 Work Defendants shall have satisfied their obligations for
5 covered matters under this Decree, and this Decree shall be
6 terminated as provided in Section XII (Termination and
7 Satisfaction).

8
9 At the time of EPA approval of the final LTS Closeout
10 Report, as defined in Appendix C, or an EPA determination under
11 Paragraph D of Section XXII (Stipulated Penalties) made six (6)
12 months or longer after EPA approval of the LTS Final Design, as
13 defined in Appendix C, or earlier if agreed to by Work Defendants
14 and EPA, the Work Defendants' funding limitations of \$14,000,000
15 for Leachate Management System and \$20,000,000 for Site Control
16 and Monitoring not related to leachate management shall be
17 consolidated into a \$34,000,000 limit on the obligations of Work
18 Defendants for both Leachate Management and Site Control and
19 Monitoring.

20
21 After eight (8) years after the effective date of this
22 Decree, or nine (9) months after the date the MCO for the final
23 site remedy has been signed, whichever is sooner, should the Work
24 Defendants have expended less than \$34,000,000 for the Work, then
25 the difference between the \$34,000,000 and the amount expended
26 shall be placed in the "Cash Escrow Account for additional site
27 remediation work not covered by this Decree and shall be expended
28 as determined by EPA in consultation with the Work Defendants.

PARTIAL CONSENT DECREE

22

1 The following expenditures specifically shall not be
2 allocable against the funding limitations of this Paragraph:
3

4 1. any fines or penalties assessed for non-compliance with
5 the provisions of this Decree or other laws;
6

7 2. Work Defendants' oversight costs including any internal
8 corporate costs, or OII Steering Committee administrative and
9 legal fees (as distinguishable from Work Defendants' Contractor's
10 project management costs, which are so allocable);
11

12 3. costs associated with the judicial resolution of any
13 disputes under Section XXIV (Dispute Resolution);
14

15 4. any costs arising out of claims or the defense of claims
16 for personal injury, property damage, or other third party
17 claims;
18

19 5. the costs of independent technical experts as provided
20 for in Paragraph B of Section XXIV (Dispute Resolution); or,
21

22 6. the costs incurred by EPA resulting from any EPA
23 determination under Paragraph D of Section XXII (Stipulated
24 Penalties).
25

26 Nothing contained in this Paragraph shall preclude Work
27 Defendants from asserting that such expenditures, excluding fines
28 or penalties, are response costs under CERCLA and the MCP.

PARTIAL CONSENT DECREE

23

1 for Work which Work Defendants wish to apply against their
2 funding limitations, annual submittals detailing the costs of
3 such Work shall be provided to EPA as required under this
4 Section IX (Work to be Performed), Section X (Escrow Account),
5 and Appendix C.

6
7 **D. Responsibility for Work**
8

9 As to the Cash Defendants, the Work Defendants shall have
10 exclusive responsibility for the performance of the Work and the
11 Cash Defendants shall have no responsibility to the United
12 States, EPA, the State, the California Hazardous Substance
13 Account, any other Defendant, or any third party for the
14 performance, or failure of performance, of the Work Defendants.
15

16 **X. ESCROW ACCOUNT**
17

18 Work Defendants shall establish the "OII Steering Committee
19 Escrow Account - Consent Decree I" (Escrow Account), within ten
20 (10) working days after the effective date of this Decree. The
21 Escrow Account shall have one interest bearing account titled
22 "Work" and one interest bearing account titled "Cash", and these
23 accounts shall be segregated from each other.
24

25 A copy of the Escrow Agreement establishing the Escrow
26 Account shall be sent to EPA and the State as soon as possible
27 thereafter for approval primarily to ensure that the escrowed
28 funds will be handled as set forth by this Decree. Neither EPA,

1 nor the State, through its approval of the terms of the Escrow
2 Account, guarantees the sufficiency of the Escrow Account
3 established by this Section.
4

5 A. Money received from the Work Defendants shall be
6 deposited in the "Work" Escrow Account. The Escrow Agreement
7 shall instruct and authorize the Escrow Manager to disburse the
8 money in the "Work" Escrow Account for the following:
9

10 1. To pay the Work Defendants' contractor(s) for the Work:
11

12 2. To pay for other expenses, including any incurred
13 penalties, required to be paid by the Work Defendants pursuant to
14 this Decree and Attachments hereto;
15

16 3. To reimburse the Hazardous Substance Superfund for
17 \$1,400,000 for past response costs incurred by EPA, as provided
18 in Section XX (Reimbursement of Past Costs) within thirty (30)
19 days of notice of entry of this Decree; and
20

21 4. To reimburse the State for \$500,000 for past response
22 costs incurred by the State, as provided in Section XX
23 (Reimbursement of Past Costs) within thirty (30) days of notice
24 of entry of this Decree.
25

26 The Work Defendants shall deposit \$1,900,000 in the "Work"
27 Escrow Account within thirty (30) days of notice of entry of this
28 Decree.

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1 B. Money received from the Cash Defendants listed in
2 Attachment A, Schedule 1 shall be deposited in the "Cash" Escrow
3 Account. The Escrow Agreement shall instruct the Escrow Manager
4 to use the money in the "Cash" Escrow Account for the purposes
5 and in the amounts directed by EPA and as provided for in
6 Attachment A to this Decree. The purposes include the following:
7 reimbursement of EPA future response and oversight costs, past
8 response costs, Work in excess of the Work Defendants' funding
9 limitations pursuant to Paragraph C of Section IX (Work to be
10 Performed), and for additional Site remediation work pursuant to
11 Paragraph C of Section IX (Work to be Performed). Payments to
12 EPA pursuant to this Paragraph B for reimbursement of: (1) EPA
13 past response costs, including interest accrued thereon, as of
14 June 1, 1988, will not exceed these actual costs which EPA
15 currently estimates to be in excess of \$21,500,000; and (2) EPA
16 costs for the oversight of the Work under this Decree will not
17 exceed these actual costs which EPA currently estimates will be
18 \$6,000,000. Use of the "Cash" Escrow Account for Work in excess
19 of Work Defendants' funding limitations and additional Site
20 remediation work, as both are described in Paragraph C of
21 Section IX (Work to be Performed), shall be subject to the same
22 provisions as the use of the "Work" Escrow Account for Work, and
23 the provisions of Paragraph C of Section IX (Work to be
24 Performed).
25

26 C. Other funds received pursuant to EPA's direction or from
27 EPA, if any, shall be placed into the "Cash" Escrow Account.
28 ///

1 D. Interest received on each Escrow Account shall be paid
2 into the account on which it was received, may be used first to
3 pay for the account fees thereon and then shall be used in the
4 same manner and for the same purposes as the other funds in the
5 account.
6

7 E. Payment of money by Defendants to the Escrow Accounts is
8 not a fine, penalty or monetary sanction.
9

10 F. The Escrow Agreement shall require that the Escrow
11 Manager prepare and submit to the Work Defendants monthly
12 statements on money received and disbursements for the prior
13 thirty (30) days for both the "Work" and the "Cash" accounts, and
14 the balances in the accounts as of the date of the statements. A
15 copy of this monthly statement shall be sent promptly to EPA and
16 the State. This monthly statement shall be included in the next
17 monthly progress report, unless a different schedule is agreed to
18 by EPA and the Work Defendants. In addition, within sixty (60)
19 days of the establishment of the Escrow Account, and every ninety
20 (90) days thereafter, in conjunction with the issuance of the
21 most recent regular monthly statement by the Escrow Manager, the
22 Work Defendants shall submit a financial report to EPA and the
23 State. The financial report shall include cash flow projections
24 for the amount of money estimated to be necessary for the "Work"
25 Escrow Account expenses described in Subparagraphs 1 and 2 of
26 Paragraph A of this Section, for the following ninety (90) day
27 period. Subject to the funding limitations in Paragraph C of
28 Section IX (Work to be Performed), if the amount of money in the

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Escrow Account is less than the amount projected by the Work Defendants' report to be needed for the following ninety (90) days, Work Defendants shall deposit in the "Work" Escrow Account, within thirty (30) days, sufficient money to bring the level of the "Work" Escrow Account up to the amount projected to be needed for the following ninety (90) days.

G. Work Defendants shall submit an annual report to EPA and the State which shall include a summary of money received and disbursements for the preceding twelve (12) month period. This financial report also shall identify, in a format corresponding to the SCM/LMS Master Plan described in Appendix C, all expenses incurred which the Work Defendants assert apply against the funding limitations in Paragraph C of Section IX (Work to be Performed).

H. As provided in Section IX (Work to be Performed), eight (8) years after the effective date of this Decree or nine (9) months after the ROD for the final site remedy has been signed, whichever is sooner, should Work Defendants have expended less than \$34,000,000 for the Work, then the difference between the \$34,000,000 and the amount expended shall be placed in the "Cash" Escrow Account for Site remediation work not covered by this Decree and shall be expended as determined by EPA in consultation with the Work Defendants.

I. As provided in Section IX (Work to be Performed) and no sooner than the earlier of eight (8) years after the effective

date of this Decree or nine (9) months after the date the ROD for the final Site remedy has been signed, or upon termination of the terms of this Decree pursuant to Section XII (Termination and Satisfaction), or upon Work Defendants' suspension of performance of the Work as described in Paragraph D(1) of Section XXII (Stipulated Penalties), the funds from the "Cash" Escrow Account shall be distributed as directed by EPA. In addition, in any of these events except for suspension of Work Defendants' performance of the Work as described in Paragraph D(1) of Section XXII (Stipulated Penalties), additional funds provided pursuant to Paragraph H of this Section, if any, shall be distributed as directed by EPA.

XI. WORKER HEALTH AND SAFETY PLAN

The Worker Health and Safety Plan that the Work Defendants will submit to EPA pursuant to Section IX (Work to be Performed) and Appendix C to this Decree shall satisfy the applicable requirements of the Occupational Safety and Health Guidance for Hazardous Waste Site Activities (October 1985 (DWH 5 NIOSH) Publication No. 85-115) and EPA's Standard Operating Safety Guides (EPA, OEHM, November 1984). The Emergency Response Plan that the Work Defendants will submit to EPA pursuant to Section IX (Work to be Performed) and Appendix C to this Decree shall address both workers at the Site and public exposure to releases or spills at and from the Site.

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1 The Parties shall use best efforts to coordinate on-site
2 activity plans.

3
4 **XII. QUALITY ASSURANCE/QUALITY CONTROL**

5
6 A. The Quality Assurance/Quality Control ("QA/QC") Plan that
7 the Work Defendants shall submit pursuant to Section IX (Work to
8 be Performed) and Appendix C to this Decree shall, where
9 applicable, be prepared in accordance with current EPA guidance,
10 Interim Guidelines and Specifications for Preparing Quality
11 Assurance Project Plans, OARS-005/80, and relevant EPA Region IX
12 guidance. Additionally, the QA/QC Plan shall include procedures
13 necessary for the implementation of trial test(s) of the pumping,
14 treatment and any other process used as part of the Work. The
15 QA/QC plan shall include a description of the mechanism used to
16 verify that the processes are operating within acceptable limits.
17 Upon approval and notice by EPA to the Work Defendants, the Work
18 Defendants shall implement the Plan.

19
20 B. The Work Defendants shall use QA/QC procedures in
21 accordance with the QA/QC plans submitted pursuant to this
22 Decree, and shall utilize standard EPA chain of custody
23 procedures, as documented in the National Enforcement
24 Investigation Center Policies and Procedures Manual as revised
25 in May 1986, and the National Enforcement Investigation Center
26 Manual for the Evidence Audit, published in September 1981, for
27 all sample collection and analysis activities, unless other
28 procedures are approved by EPA. In order to provide quality

1 assurance and maintain quality control regarding all samples
2 collected pursuant to this Decree, the Work Defendants shall
3 ensure that the following QA/QC measures are employed at
4 laboratories utilized for analyses:

5
6 1. Any laboratory utilized by the Work Defendants for
7 analysis of samples taken pursuant to this Decree shall provide
8 for access of EPA personnel and EPA authorized representatives to
9 assure the accuracy of laboratory results related to the OII
10 Site.

11
12 2. Any laboratory utilized by the Work Defendants for
13 analysis of samples taken pursuant to this Decree shall perform
14 all analyses according to EPA methods or methods deemed
15 satisfactory to EPA and submit all protocols to be used for
16 analysis to EPA in the plans and documents required under this
17 Decree.

18
19 3. All laboratories utilized by the Work Defendants for
20 analysis of samples taken pursuant to this Decree shall
21 participate in an EPA or EPA equivalent QA/QC program. As part
22 of the QA/QC program and upon request by EPA, such laboratories
23 shall perform, at no cost to Plaintiffs, analyses of samples
24 provided by EPA to demonstrate the quality of each laboratory's
25 data.

26 ///

27 ///

28 ///

XIII. PROJECT COORDINATORS

2
3 A. By the effective date of this Decree, EPA, the State and
4 the Work Defendants shall each designate a Project Coordinator to
5 monitor the progress of the Work, to coordinate communication
6 among the Parties and to oversee the implementation of this
7 Decree. EPA, the State, and the Work Defendants each have the
8 right to change their respective Project Coordinator. Such a
9 change shall be accomplished by notifying the other Parties in
10 writing at least seven calendar days prior to the change. To the
11 maximum extent possible, communications between the Work
12 Defendants, EPA and the State and all documents, including
13 reports, approvals, and other correspondence concerning the
14 activities performed pursuant to the terms and conditions of this
15 Decree, shall be directed through the Project Coordinators. The
16 role of the State Project Coordinator shall be consistent with
17 the provisions of Paragraphs A and D of Section XXXIV (State and
18 Local Agency Participation), and EPA shall be the lead agency (as
19 defined in the NCP).

20
21 The EPA Project Coordinator shall have the authority vested
22 in the On-Scene Coordinator by 40 C.F.R. § 300 et seq., as well
23 as the authority to ensure that the Work is performed in
24 accordance with all applicable statutes, regulations, and this
25 Decree. If the EPA On-Scene-Coordinator and the EPA Project
26 Coordinator are two different individuals, EPA will make its best
27 efforts to coordinate any direction given to the Work Defendants
28 by the On-Scene-Coordinator and the EPA Project Coordinator.

1 The EPA Project Coordinator or On-Scene-Coordinator
2 shall also have the authority to require a cessation of the
3 performance of the Work or any other activity at the Site, if EPA
4 determines that the Work or such activity may present or
5 contribute to an endangerment to public health, welfare, or the
6 environment or cause or threaten to cause the release of
7 hazardous substances from the Site. In the event the EPA Project
8 Coordinator or On-Scene-Coordinator takes any action which
9 results in the delay of the Work or any other activity required
10 by this Decree, the Parties may if necessary extend the
11 compliance schedule of this Decree for only that amount of time
12 which EPA determines is necessitated by the event. Should the
13 Work Defendants desire to extend the compliance schedule pursuant
14 to this Section, the Work Defendants shall propose an extension
15 and the EPA shall determine the length of any extension. If the
16 EPA Project Coordinator takes any action which results in the
17 delay of the Work or any other activity required by this Decree
18 for any of the reasons set forth in this Paragraph and those
19 reasons are due to the acts or omissions of the Work Defendants
20 or the Contractor(s), then any extension of the compliance
21 schedule shall be at EPA's discretion. The absence of the EPA
22 Project Coordinator from the Site shall not be cause for stoppage
23 of the work.

24
25 B. Work Defendants' Project Coordinator shall be
26 responsible for directing the day-to-day activities of Work
27 Defendants and Work Defendants' contractors in the performance of
28 the Work. The Work Defendants' Project Coordinator may assign

1 other representatives, including other contractors, to serve as a
2 site representative for oversight of performance of daily
3 operations during remedial activities.
4

5 C. Prior to invoking formal Dispute Resolution procedures,
6 any unresolved disputes arising between the EPA site
7 representatives and the Work Defendants or their contractors
8 shall be referred to the EPA and Work Defendants' Project
9 Coordinators.
10

11 XIV. SITE ACCESS

12
13 A. To the extent that the Site or other areas where Work is
14 to be performed is presently owned or controlled by parties other
15 than those bound by this Decree or to the extent that access to
16 or easements over property is required for the proper and
17 complete performance of this Decree, the Work Defendants shall
18 use their good faith efforts to obtain access agreements from the
19 present owners or those persons who have control over the
20 property, including lessees. Site access agreements shall
21 provide reasonable access to the Defendants, the Work Defendants'
22 contractor(s), the United States on behalf of EPA and USACE, the
23 State and local agencies, and their authorized representatives.
24 In the event that Work Defendants are unable to obtain necessary
25 access agreements sixty (60) days in advance of the need for such
26 access, Work Defendants shall notify Plaintiffs regarding the
27 lack of and the efforts to obtain such agreements. If Work
28 Defendants fail to gain access within sixty (60) days, they shall

1 continue to use good faith efforts to obtain access. If the
2 Plaintiffs and Work Defendants, through continued joint or
3 individual efforts, are unable to obtain such access, or suitable
4 alternative access, a ~~force majeure~~ event shall be deemed to have
5 occurred, and the affected work shall be modified, if necessary,
6 by mutual agreement of the Work Defendants and Plaintiffs, to
7 take into account the lack of such access.
8

9 To the extent that EPA has control over access to portions
10 of the OII Site, and in light of the fact that EPA intends to
11 continue to provide site security and control access to portions
12 of the Site, EPA agrees to provide reasonable access to those
13 technical representatives of Work Defendants required to carry
14 out the field work detailed in this Decree. Within seven (7)
15 days of the effective date of this Decree, Work Defendants shall
16 provide the EPA Project Coordinator with a list of necessary
17 personnel and their company affiliations, to be added to the list
18 of persons who shall be provided access to the Site. This list
19 can be amended as necessary. Upon request, EPA will provide
20 access to other representatives of Defendants, as is necessary
21 and appropriate.
22

23 B. The EPA, the USACE, the State, and their
24 representatives, including contractors, reserve all rights under
25 Section 104 of CERCLA and, during the effective period of this
26 Decree, shall have access at all times to the Site and, during
27 reasonable times with reasonable notice, to any contiguous
28 ///

1 property owned or controlled by any Defendant, for activities,
2 including but not limited to:

- 3
- 4 1. Monitoring the progress of activities taking place;
- 5
- 6 2. Verifying any data or information submitted to EPA;
- 7
- 8 3. Conducting investigations relating to contamination
9 at and near the Site;
- 10
- 11 4. Obtaining samples at the Site.
- 12

13 As to activities relating to the Site, the EPA, the USACE,
14 the State, and their representatives shall also have access for
15 the purposes of inspecting and copying records, operating logs,
16 contracts, or other documents as specified in Section XVI (Data
17 Exchange).

18
19 Any person obtaining access to the Site pursuant to this
20 provision shall comply with all applicable provisions of the Work
21 Defendants' worker health and safety plan as submitted pursuant
22 to Section XI (Worker Health and Safety Plan) and Appendix C of
23 this Decree.

24
25 **XV. COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS**

26
27 All actions required to be taken by any Party pursuant to
28 this Decree shall be undertaken in accordance with the

1 requirements of all applicable federal, state, and local laws,
2 and regulations, including the MCP. Work Defendants shall
3 obtain, or cause their contractors to obtain, except as provided
4 in Section 121(e)(1) of CERCLA, all permits and approvals
5 necessary under such laws and regulations.

6
7 **XVI. DATA EXCHANGE**

8
9 A. The Defendants shall make the results of all sampling
10 and/or tests or other data generated by the Defendants, or on the
11 Defendants' behalf, with respect to the implementation of this
12 Decree available to EPA in accordance with the provisions of this
13 Decree. EPA will make available to the Work Defendants the
14 results of sampling and/or tests or other data similarly
15 generated by EPA.

16
17 B. Under the provisions of Section 104(e) of CERCLA, EPA
18 and the State explicitly reserve the right to observe the Work of
19 the Work Defendants as it is performed. In addition, at the
20 request of EPA or the State, the Work Defendants shall allow
21 split or replicate samples to be taken by EPA or the State and/or
22 their authorized representatives, of any samples collected by the
23 Work Defendants or any one acting on the Work Defendants' behalf
24 pursuant to the implementation of this Decree. To the extent
25 practicable, any such observation and sample collection shall be
26 coordinated through the EPA Project Coordinator. At the request
27 of Work Defendants, Plaintiffs and/or their authorized
28 representatives shall allow Work Defendants to split or replicate

1 any samples collected by Plaintiffs and/or their authorized
2 representatives.

3
4 C. The Party performing sampling for the purposes of
5 implementing this Decree shall notify the other Parties as soon
6 as possible but no less than seven (7) days in advance of any
7 sample collection activity, and the party desiring to take split
8 samples shall inform the other party at least three (3) days
9 prior to the scheduled sampling event. The Party performing the
10 the sampling activity shall inform the other Parties at least
11 twenty-four (24) hours in advance if the planned sampling
12 schedule cannot be met. Notwithstanding the foregoing, within
13 seven (7) days after the approval of any sampling plan (including
14 the schedule for implementation), Work Defendants shall notify
15 Plaintiffs of the intended date of commencement of the sampling
16 activity. EPA shall be notified thirty (30) days prior to the
17 disposal of any such samples, and EPA shall have an opportunity
18 to take possession of all or a portion of such samples.

19
20 D. The Work Defendants need not provide EPA with seven (7)
21 day notice of routine sampling relating to the operation of the
22 treatment system; however, the Work Defendants shall provide EPA
23 with a schedule for all routine sampling. The Work Defendants
24 shall notify EPA seven (7) days in advance of any changes in the
25 routine sampling schedule. The Work Defendants need not provide
26 EPA with advance notice of changes in the treatment system
27 routine sampling as a result of unexpected conditions. The Work
28 Defendants shall, however, notify EPA within forty-eight (48)

1 hours of such occurrence and shall provide EPA with the results
2 of analysis of such sampling when the results become available.

3
4 E. Plaintiffs and Defendants agree to exchange technical
5 data and information relating to environmental and public health
6 issues, site conditions, site use and history, and regional
7 environmental conditions relating to the performance of the Work
8 or which would be covered by the provisions of Section 104 of
9 CERCLA, as such data and information becomes available, including
10 but not limited to:

11
12 1. Raw analytical, monitoring, sampling, geographical,
13 hydrogeological, geologic, meteorological, surface
14 water, landfill gas, subsurface gas, or ambient air
15 data, resulting from any environmental testing relating
16 to the OII Site;

17
18 2. Technical working drafts and final reports, letter
19 reports, work plans, documents, memoranda, status
20 reports, and written material, any of which are
21 developed using data generated by the Work Defendants
22 as part of the implementation of this Decree or
23 generated by Plaintiffs relating to the OII Site;

24
25 3. All technical maps, computer generated graphics,
26 charts, tables, data sheets, geologic cross-sections,
27 lithologic logs, graphs, photographs, slides, or

28 ///

1 other such material developed relating to the OII
2 Site; and
3

4 4. Computerized compilations of technical data and
5 information relating to the OII Site, including
6 the display and organization of data bases.
7

8 Summaries and tabulations of laboratory data may be reviewed for
9 clerical and gross laboratory handling errors prior to submission
10 pursuant to this Paragraph.
11

12 F. The Parties shall provide notice in a timely manner of
13 any project which is likely to produce data or information
14 subject to this Section.
15

16 G. Defendants recognize that the data and reports generated
17 under this Decree are not subject to the protection of
18 Section 1905 of Title 18 and 40 C.F.R. Part 2 as confidential
19 information. Moreover, the Parties explicitly recognize that the
20 provisions of Section 104(e)(7)(F) of CERCLA apply to data and
21 information generated by the Defendants. The Work Defendants
22 shall not assert a claim of confidentiality regarding any
23 hydrogeological or chemical data, or any data submitted in
24 support of the Work. Defendants reserve their rights to assert a
25 confidentiality claim for all other information pursuant to
26 Section 1905, Title 18 and 40 C.F.R. Part 2, and any applicable
27 state laws and regulations. The provisions of this Section shall
28 not constitute a waiver of any applicable claims of attorney work

1 product or attorney client privilege. In addition, the United
2 States reserves all its rights with regard to information
3 otherwise not subject to disclosure under applicable law. The
4 State is not obligated to provide any materials pursuant to this
5 Section which are subject to applicable attorney work product
6 claims, attorney-client privilege, or which the State is not
7 required to disclose under California Government Code Section
8 6254, except that Section 6254(b) shall not apply to the extent
9 that the State has made requested materials available to parties
10 to any pending litigation.
11

12 H. All data, factual information, and documents submitted
13 by the Defendants to EPA and the State pursuant to this Decree
14 and determined by EPA or the State, as appropriate, not to be
15 confidential shall be subject to public inspection.
16

17 I. If any of the Cash Defendants wish to perform any
18 sampling activity on or contiguous to the Site, they shall first
19 provide notice to the Project Coordinators and obtain permission
20 from EPA and the contiguous property owner if such owner is a
21 Defendant. In such an event, the provisions of this Section
22 shall apply to that Cash Defendant.
23

24 J. Subject to Paragraph G above, any Cash Defendant shall,
25 at its request in writing, have access to all data, factual
26 information and documentation generated under this Decree or
27 described in Section IX (Work to be Performed) and Appendix C.
28 The cost of copying shall be borne by the Cash Defendant. Any

1 such data, factual information or documents obtained by any Cash
2 Defendant shall be subject to the provisions of this Section.
3

4 XVII. RETENTION OF RECORDS

5
6 The Defendants shall preserve and retain all records and
7 documents now in their possession or control or in the possession
8 or control of their divisions, employees, agents, accountants,
9 contractors or attorneys which relate to the performance of the
10 Work or which would be covered by the provisions of Section 104
11 of CERCLA, regardless of any document retention policy to the
12 contrary, during the pendency of this Decree and for six (6)
13 years after its termination.
14

15 Until this six (6) year period expires, the Defendants shall
16 preserve, and shall instruct all contractors, all contractor's
17 subcontractors, and anyone else acting on the Defendants' behalf
18 at the OII Site to preserve (in the form of originals or exact
19 copies, or in the alternative, microfiche of all originals) all
20 records, documents and information specified above. During this
21 six (6) year period following the termination of this Decree, if
22 requested by EPA or the State, originals or copies of all such
23 records, documents, and information shall be delivered to the EPA
24 and the State Project Coordinators or designees, as appropriate.
25 After this six (6) year period, the Defendants shall notify the
26 EPA and the State no later than sixty (60) calendar days prior to
27 the destruction of any such documents. Upon request by EPA or
28 the State made within thirty (30) days of such notice, the

1 Defendant proposing to destroy records shall make available to
2 the EPA or the State, as appropriate, originals or copies of any
3 such records prior to their destruction. The United States and
4 Defendants are not obligated to provide any materials pursuant to
5 this Section which are subject to applicable attorney work
6 product claims or attorney-client privilege, or both. In
7 addition, the United States reserves all its right with regard to
8 information otherwise not subject to disclosure under applicable
9 law.
10

11 EPA shall preserve and retain all records and documents now
12 in their possession or control or in the possession or control of
13 their divisions, employees, agents, accountants, contractors or
14 attorneys which relate to any field activities at the OII Site
15 performed by EPA, are received under the provisions of
16 Section 104 of CERCLA, or which relate to the performance of the
17 Work under this Decree, as required by the EPA Office of
18 Information Resources Management Document Number 2160, entitled
19 Records Management Manual and the corresponding EPA Records
20 Management Manual, Appendix B, Records Control Schedules.
21

22 The State shall preserve and retain all records and
23 documents now in its possession or control or in the possession
24 or control of its divisions, employees, agents, accountants,
25 contractors or attorneys which relate to the performance of the
26 Work under this Decree or which relate to activities performed or
27 investigations, or enforcement actions taken by the State at the
28 OII Site regardless of any documents retention policy to the

1 contrary, during the pendency of this Decree and for six (6)
2 years after its termination. After such six (6) year period, the
3 State shall notify the Defendants no later than sixty (60)
4 calendar days prior to the destruction of any such documents.
5 Upon request by any Defendant made within thirty (30) days of
6 such notice, the State shall make available to the requesting
7 Defendant originals or copies of any such records prior to their
8 destruction. The State is not obligated to provide any materials
9 pursuant to this Section which are subject to applicable attorney
10 work product claims, attorney-client privilege, or which the
11 State is not required to disclose under California Government
12 Code Section 6254, except that Section 6254(b) shall not apply to
13 the extent that the State has made requested materials available
14 to parties to any pending litigation.

15
16 This Section shall not apply to exact duplicates.

17
18 **XVIII. RESERVATION OF RIGHTS**

19
20 A. Nothing in this Decree shall constitute or be construed
21 as a covenant not to sue with respect to, or a release from any
22 claim, cause of action, or demand in law or equity, which the
23 Parties may have against any person, as defined in
24 Section 101(21) of CERCLA, 42 U.S.C. § 9601(21) or California
25 Health and Safety Code § 25319, not a signatory to this Decree.

26
27 B. Notwithstanding compliance with the terms of this
28 Decree, including the completion of EPA approved Work, the

1 Defendants are not released from liability for any matters beyond
2 the terms of this Decree. For matters beyond the terms of this
3 Decree, the United States, EPA and the State reserve the right to
4 take any enforcement action pursuant to CERCLA and/or any other
5 authority, including the right to seek response costs, injunctive
6 relief, monetary penalties, and punitive damages.

7
8 C. Notwithstanding any other provision in this Decree, the
9 Covenant Not to Sue, as provided in Section XIX (Covenant Not to
10 Sue), shall not relieve any Defendant of its obligation to meet
11 and maintain compliance with the requirements set forth in this
12 Decree. The United States, EPA and the State reserve all rights
13 to take enforcement actions for violations of this Decree.

14
15 D. In the event EPA determines that the Work Defendants
16 have failed to implement any provisions of the Work in an
17 adequate or timely manner, or in the event of an imminent or
18 substantial endangerment to the public health or welfare or the
19 environment, EPA may perform any and all portions of the Work as
20 it determines may be necessary, subject to the reimbursement
21 provisions of Paragraphs A and B of Section XIX (Reimbursement of
22 Future Response and Oversight Costs). If the EPA decides to
23 perform work which is the subject of this Decree, the EPA will
24 provide the Work Defendants' and the State's Project Coordinator
25 with advance notice thereof and, to the extent practicable, the
26 opportunity for consultation regarding EPA's intention to perform
27 a portion of or all of the Work. EPA and the State may agree
28 ///

1 that the State may perform work pursuant to the provisions of
2 this Paragraph.

3
4 E. Nothing in this Decree shall be deemed to limit the
5 response authority of EPA under Section 104 of CERCLA, 42 U.S.C.
6 § 9604, and under Section 106 of CERCLA, 42 U.S.C. § 9606, or
7 under any other federal response authority, except to the extent
8 that Defendants have a Covenant Not to Sue for Covered Matters
9 under Section XXX (Covenant Not to Sue). Nothing in this Decree
10 shall be deemed to limit the response authority of the State
11 under Section 25358.3 of the California Health and Safety Code or
12 under any other response authority, except to the extent that
13 Defendants have a Covenant Not to Sue for Covered Matters under
14 Section XXX (Covenant Not to Sue).

15
16 F. Except as provided in Section I (Jurisdiction),
17 Section IV (Binding Effect) and Section XXXVII (Claims Against
18 the Fund), Defendants expressly reserve all legal and equitable
19 rights and defenses that they may have under this Decree, CERCLA,
20 or any other legal authority, including all arguments concerning
21 compliance with the specific tasks and requirements of this
22 Decree. Except as provided in this Decree and Section 113(f)(2)
23 of CERCLA, this reservation of rights applies to all claims,
24 actions and defenses of Defendants against non-settlers, the
25 United States, the State of California, EPA or any others and to
26 those assertable between and among the individual Defendants.
27 Except as provided in Section XXVIII (Defendants' Right of
28 Contribution and Indemnity and Covenant Not to Sue Each Other)

1 and Section XXXVII (Claims Against the Fund), or otherwise in
2 this Decree, these rights include, but are not limited to, the
3 right to seek reimbursement for response actions taken and
4 response costs paid by any of the Defendants at any time.

5
6 G. Defendants reserve any and all rights of contribution
7 from any or all persons who are not Defendants as defined herein
8 for all costs incurred by Defendants under this Decree or
9 otherwise complying with the requirements of this Decree.
10 Nothing in this Decree shall be construed as limiting Defendants'
11 right to seek contribution from any or all liable persons who are
12 not Defendants.

13
14 H. In reaching this settlement, the Parties looked to a
15 calculation which did not specifically address individual
16 defenses or hazardous substances deposited by persons not parties
17 to this Decree. Rather, the Parties have allocated costs in a
18 general fashion reflective both of the volumes of wastes
19 deposited at the Site by the Defendants and of the nature of each
20 Defendant's participation in this Decree. If an allocation is
21 performed at the time a final remedy has been chosen, for the
22 purpose of resolving any liability remaining at that time, and if
23 it is determined that a Defendant's relative share of liability
24 (expressed as a percentage) is less than what was calculated for
25 the purposes of this settlement, as reflected in Attachment C,
26 the payment otherwise required in the resolution of final site
27 liability should be reduced by an amount corresponding to the
28 Percentage Reduction of a Defendant's relative share of liability

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1 times either the amount paid by a Cash Defendant, or the amount
2 paid and the value of Work performed in accordance and in full
3 compliance with this Decree, by a Work Defendant in this
4 settlement. The Percentage Reduction should be determined by
5 dividing a Defendant's reduction in relative share of liability
6 determined by an allocation made, if any, at the time of final
7 settlement by that Defendant's relative share of liability among
8 Defendants as reflected in Attachment C.

9
10 For purposes of this Paragraph M, the value of Work
11 performed for each Work Defendant shall be the greater of the
12 value of all costs incurred consistent with the NCP (excluding
13 penalties) in performing the Work pursuant to this Decree, or an
14 amount equal to \$11,500 per 0.01% for the volume indicated for
15 that Work Defendant in Attachment C. Notwithstanding the above,
16 it is intended that any reallocation to "non-noticed PRPs"
17 resulting from the application of any credit pursuant to this
18 Paragraph M shall be based upon the amount of the credit which is
19 reflected by the payments made by the Cash Defendants and the
20 amount paid and the actual costs to the Work Defendants in
21 performing the Work consistent with the NCP (excluding
22 penalties). "Non-noticed PRPs" shall mean any potentially
23 responsible party under Section 107(a) of CERCLA which has not
24 been notified by EPA of its status as a potentially responsible
25 party at the OII Site as of the effective date of this Decree.

26
27 The Parties agree that this credit provision will not apply
28 if the use of the credit would result in the United States or the

1 State of California not recovering their total costs for the
2 final Site remedy. The Parties further agree that this provision
3 shall not be construed as any restriction of joint and several
4 liability under CERCLA, nor shall it be construed as any
5 commitment on the part of the United States to use the Hazardous
6 Substance Superfund to pay for any portion of the cost of the
7 final remedy or any other response activities. In addition, this
8 Paragraph M shall not restrict, in any way, the United States' or
9 EPA's or the State's ability to recover those costs not recovered
10 under this Decree from the appropriate persons potentially liable
11 under Section 107 of CERCLA. In the event that the United States
12 or the State reach a settlement with some or all of the
13 appropriate potentially responsible persons under Section 107 of
14 CERCLA regarding their ultimate liability for costs incurred or
15 work to be performed at the OII Site on any terms, this Paragraph
16 M shall not be the basis for an objection to such settlement or a
17 motion for entry of any future Consent Decree by any signatory to
18 this Decree.

19
20 I. In no case shall any Defendant be entitled to a refund
21 or to assert a claim against the Superfund under
22 Sections 106(b)(2) or 112 of CERCLA for any amount paid, or
23 expended, under this Decree even if that Defendant is later
24 determined, based upon its assertion of defenses in a subsequent
25 proceeding, to be not liable for response costs for the Site or
26 to be liable for response costs less than those paid, or
27 expended, pursuant to this Decree.

28 ///

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1 J. Nothing in this Section shall limit any Defendant's
2 right to a Covenant Not to Sue under Section XX (Covenant Not to
3 Sue) or Contribution Protection under Section XXIX (Contribution
4 Protection) for all Covered Matters.

5
6 XIX. REIMBURSEMENT OF FUTURE RESPONSE AND OVERSIGHT COSTS
7

8 A. The Work Defendants shall reimburse EPA's Hazardous
9 Substance Superfund or the State for the costs incurred for any
10 activities outlined in Section IX (Work to be Performed) which
11 are performed by EPA or the State, pursuant to the provisions
12 Paragraph D of Section XVIII (Reservation of Rights). These costs
13 shall be subject to the funding limitations of Paragraph C of
14 Section IX (Work to be Performed). The Work Defendants shall,
15 within thirty (30) calendar days of receipt of demand for
16 payment, remit a check for the amount of those costs made payable
17 to the Hazardous Substance Superfund, or the Department of Health
18 Services, as appropriate.

19
20 B. Reimbursement under this Section shall also be required
21 in the event that EPA determines that Work Defendants have failed
22 to perform any material portion of the Work or have performed any
23 portion of the Work in a substantially inadequate or
24 substantially untimely manner, or in the event of an imminent and
25 substantial endangerment to public health or welfare or the
26 environment resulting from the performance of, or failure to
27 perform, Work by the Work Defendants. If EPA or the State
28 assumes performance of any portion of the Work based on such a

1 determination, the Work Defendants shall, within thirty (30)
2 calendar days of receipt of demand for payment, remit a check for
3 the amount of those costs made payable to the Hazardous Substance
4 Superfund or the DHS, as appropriate. In such an event, the
5 funding limitations of Paragraph C of Section IX (Work to be
6 Performed) shall not apply.

7
8 C. Defendants shall reimburse the Hazardous Substance
9 Superfund for the costs incurred by EPA to oversee and review the
10 work under this Decree. These payments shall be made in the
11 amounts set forth and as described in Paragraph B of Section X
12 (Escrow Account), Section VIII (Payments by Cash Defendants) and
13 Attachment A to this Decree.

14
15 D. Any payment made pursuant to this Section shall not
16 constitute an admission by Defendants of any liability to EPA,
17 the State or any other person or agency. The checks shall
18 reference the OII Site, and be addressed to:

19
20 U.S. Environmental Protection Agency - Region 9
21 Attn: Superfund Accounting
22 P.O. Box 360863M
23 Pittsburgh, PA 15251

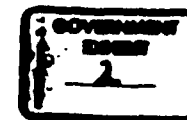
24 ///

25 ///

26 ///

27 ///

28 ///



or, as appropriate:

California Department of Health Services
Toxics Substances Control Division
P.O. Box 942732
Sacramento, CA 94234-7320

A copy of the transmittal letter and a copy of the check shall be sent to the EPA or State Project Coordinator, as appropriate.

XX. REIMBURSEMENT OF PAST COSTS

A. Defendants agree to reimburse the Hazardous Substance Superfund for certain past response costs which have been incurred by EPA in responding to the conditions at the OII Site, including costs for emergency response actions which have been taken at the OII Site, remedial investigation activities performed by EPA and its contractor, and site control and monitoring activities. EPA will provide Defendants with a copy of the appropriate SFUR (Software Package for Unique Reports, EPA's Superfund accounting system document) which provides an accounting of its costs for the period up to and including June 1, 1988. EPA will also provide a summary accounting of its indirect and interest cost calculations. These reimbursements shall be made in the amounts set forth and as described in Section VIII (Payments by Cash Defendants), Section X (Escrow Account) and Attachment A to this Decree. Work Defendants shall

pay \$1,400,000 in EPA past response costs, as provided for in Section X (Escrow Account). A copy of all transmittal letters and a copy of all checks shall be sent to the EPA Project Coordinator.

B. Defendants agree to reimburse the State of California Hazardous Substance Account for certain past response costs which have been incurred by the State in responding to conditions at the OII Site. The State will provide the Defendants an accounting of its costs for the period up to and including June 1, 1988. These payments shall be made in the amounts set forth as described in Section VIII (Payments by Cash Defendants), Section X (Escrow Account) and Attachment A to this Decree. Work Defendants shall pay \$500,000 in past response costs, as provided for in Section X (Escrow Account). A copy of the transmittal letter and a copy of the check shall be sent to the State Project Coordinator.

C. Such payments by Defendants to the EPA and the State as provided in Paragraphs A and B above, are not a penalty, fine or monetary sanction of any kind.

XXI. PRIORITY OF CLAIMS

In any contribution action, the rights of any Defendant shall be subordinate to the rights of the United States or the State, pursuant to the provisions of Section 113(f)(3)(C) of CERCLA.

1 XVIII. STIPULATED PENALTIES

2
3 A. General Provisions

4
5 1. Stipulated penalties shall apply for untimely or
6 inadequate submittals or Work required under the terms of this
7 Decree except where due to the occurrence of a force majeure
8 event, pursuant to Section XIII (Force Majeure). Penalties
9 shall apply from the first day after the deadline for performance
10 of a requirement of this Decree until the requirement is
11 satisfied.

12
13 2. For inadequate submittals or Work, EPA shall provide to
14 Defendants, as soon as possible, oral notification of the
15 occurrence of an event which triggers stipulated penalties, with
16 written confirmation within seven (7) days of the occurrence of
17 that event. In the event that EPA fails to so notify Defendants,
18 stipulated penalties shall accrue from the date on which
19 Defendants receive such notice.

20
21 3. Stipulated penalties under this Paragraph shall be paid
22 upon demand, by certified check made payable to the Hazardous
23 Substance Superfund, and addressed as indicated in Section XIX
24 (Reimbursement of Future Response and Oversight Costs) and shall
25 be paid within thirty (30) days of receipt of the demand for
26 payment of stipulated penalties. Failure to pay a stipulated
27 penalty on time shall also constitute such an event subject to
28 stipulated penalties. A copy of the check and the letter

1 forwarding the check, including a brief description of the
2 triggering event, shall be submitted to the United States in
3 accordance with Section XIV (Form of Notice), herein.

4
5 4. Notwithstanding the stipulated penalties provisions of
6 this Section, and to the extent authorized by law, EPA or the
7 State may elect to assess civil penalties or bring an action in
8 District Court to enforce the provisions of this Decree. Payment
9 of stipulated penalties shall not preclude EPA or the State from
10 electing to pursue any other remedy or sanction to enforce this
11 Decree, and nothing shall preclude EPA or the State from seeking
12 statutory penalties against the Work Defendants for violations of
13 statutory or regulatory requirements relating to the performance
14 of the Work under this Decree, provided that the total shall not
15 exceed \$25,000 per day per violation.

16
17 5. In the event the EPA or the State assumes the
18 performance of a portion or all of the Work, pursuant to
19 Section XVIII (Reservation of Rights), the Work Defendants would
20 be liable for stipulated penalties pursuant to this Section. As
21 provided for in Paragraphs A and B of Section XIX (Reimbursement
22 of Future Response and Oversight Costs), if EPA or the State
23 performs all or portions of the Work because of the Work
24 Defendants' failure to comply with their obligations under this
25 Decree, the Work Defendants shall reimburse the EPA or the State
26 for the costs of doing such work within thirty (30) days of
27 receipt of demand for payment of such costs, plus penalties,
28 pursuant to Paragraphs C or D of this Section, as applicable.

1 6. The Work Defendants are jointly and severally liable for
2 any stipulated penalties pursuant to the provisions of this
3 Section provided, however, that the total amount due and payable
4 for each day of each violation shall not exceed those limits
5 specified in this Section.

6
7 7. Work Defendants may invoke the dispute resolution
8 procedures set forth in Section XXIV (Dispute Resolution) in any
9 case that results in stipulated penalties based on a
10 determination of inadequacy including any determination of
11 inadequacy by EPA pursuant to Paragraph D of Section XVIII
12 (Reservation of Rights). Invoking the dispute resolution process
13 shall not toll or suspend the accrual of stipulated penalties,
14 subject to the provisions of Section XXIV (Dispute Resolution).

15
16 **B. Monthly Progress Reports**

17
18 1. The Work Defendants shall provide written monthly
19 progress reports to EPA as described in Appendix C. These
20 monthly progress reports shall describe all actions taken to
21 comply with this Decree during this reporting period, including a
22 general description of Work commenced or completed during the
23 reporting period, Work projected to be commenced or completed
24 during the next reporting period, any problems that have been
25 encountered or are anticipated by the Work Defendants in
26 commencing or completing the Work, and shall also include the
27 monthly statements for the Escrow Accounts as described in
28 Paragraph F of Section X (Escrow Account). These monthly

1 progress reports shall be submitted to EPA by the
2 fourteenth (14th) day of each month, and should cover the work
3 done the preceding calendar month and planned for the current
4 calendar month.

5
6 2. If a submitted monthly progress report is inadequate, or
7 if the Work Defendants fail to submit any monthly progress report
8 in accordance with the schedule set forth above, then the Work
9 Defendants shall be considered to be in violation of this Decree
10 and subject to stipulated penalties as governed by this Section.

11
12 3. The Work Defendants shall pay stipulated penalties of
13 \$1,000 per day for the submission of inadequate or late monthly
14 progress reports as called for in this Section.

15
16 **C. Work to be Performed and All Other Deliverables**

17
18 1. Any reports, plans, specifications (including discharge
19 or emission limits), schedules, appendices, and attachments
20 required by this Decree are, upon approval by EPA, incorporated
21 into this Decree. Any noncompliance with such EPA approved
22 reports, plans, specifications (including discharge or emission
23 limits), schedules, appendices, and attachments shall be
24 considered a failure to comply with this Decree and subject to
25 stipulated penalties as governed by this Section. In the event
26 Work Defendants exceed discharge or emission limits, stipulated
27 penalties shall apply under this Section. EPA may, however, in
28 its sole discretion, determine it is appropriate to forgive or

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1 reduce stipulated penalties assessed by EPA under this Decree
2 solely for such exceedences. If Work Defendants pay penalties
3 assessed by a state or local agency for such an exceedance, the
4 amount of such penalties paid will be credited toward any
5 penalties assessed by EPA for the same instance of exceedance.

6
7 2. If EPA disapproves any Work, plans, reports (other than
8 monthly progress reports, which are covered by Paragraph B
9 above), or other items required to be submitted to EPA for
approval pursuant to Section IX (Work to be Performed),
11 Section XII (Quality Assurance/Quality Control), or Section X
12 (Escrow Account), the Work Defendants shall have ten 10 days from
13 the receipt of such disapproval to correct any inadequacies and
14 resubmit the plan, report, or item for EPA approval unless a
15 longer period of time is provided by Subparagraph A(12) of
16 Section IX (Work to be Performed) with respect to Work. This
17 Subparagraph C(2) does not apply to Project Proposals, as
18 described in Appendix C.

19
20 3. Any disapprovals by EPA shall include an explanation of
21 why the Work, plan, report, or item is being disapproved.

22
23 4. The Work Defendants must address each of EPA's comments
24 and resubmit to EPA the previously disapproved plan, report, or
25 item with any required changes within the deadline set forth
26 herein.

27 ///

28 ///

1 5. If any plan, report, or item is inadequate after
2 resubmission, then the Work Defendants shall be deemed to be in
3 violation of this Decree and subject to stipulated penalties as
4 governed by this Section.

5
6 6. Except for the stipulated penalties specified in
7 Paragraph B, above, the Work Defendants shall pay the following
8 stipulated penalties for each failure to comply with the
9 requirements of this Decree, including but not limited to all
10 implementation schedules and performance and submission dates:

11
12 a. Class I Requirements

13
14 All Outlines
15 Preliminary Designs
16 Intermediate Designs
17 Preliminary Designs
18 All Construction Inspections
19 Draft Construction Close-out Reports
20 Emergency Repair Close-out Reports
21 Discharge or Emission Exceedences

22 ///

23 ///

24 ///

25 ///

26 ///

27 ///

28 ///

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	<u>Period of Failure to Comply</u>	<u>Penalty per Day per Event</u>
1	Bench Scale Testing Plan	
2	LTS Pre-design Report	
3	Final Construction Close-out Reports	
4	Quarterly Escrow Reports required by Section X (Escrow Account)	
5		
6	Work Completion Report	
7	Final Designs (other than LTS Final Design)	
8	Untimely Commencement of Work	
9		
10	<u>Period of Failure to Comply</u>	<u>Penalty per Day per Event</u>
11		
12		
13	1st through 15th day	\$3,000
14	16th through 30th day	\$7,000
15	31st through 45th day	\$10,000
16	46th day and beyond	\$15,000
17		
18	<u>c. Class III Requirements</u>	
19		
20	Safety, Health, and Emergency Response Plan	
21	Quality Assurance/Quality Control Plan	
22	Interim Budget and Operations Plan	
23	Final LTS Close-out Report	
24	LTS Final Design	
25	///	
26	///	
27	///	
28	///	

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	<u>Period of Failure to Comply</u>	<u>Penalty per Day per Event</u>
1		
2		
3		
4	1st through 30th day	\$2,500
5		
6	<u>If an Outline or Report is for a Class II Requirement:</u>	
7	31st through 45th day	\$10,000
8	46th day and beyond	\$15,000
9		
10	<u>If a Design or Construction is for a Class II Requirement:</u>	
11	31st through 45th day	\$5,000
12	46th day and beyond	\$15,000
13		
14	<u>If an Outline, Design, Construction, or Report is for a</u>	
15	<u>Class III Requirement:</u>	
16	31st through 45th day	\$15,000
17	46th day and beyond	\$20,000
18		
19	<u>All other Class I Requirements:</u>	
20	31st day and beyond	\$2,500
21		
22	<u>b. Class II Requirements</u>	
23		
24	All Preliminary Plans	
25	SCM/LMS Master Plan	
26	Operations Manual	
27	Transition Plan	
28	Project Proposal Plan	

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<u>Period of Failure</u> <u>to Comply</u>	<u>Penalty per Day</u> <u>per Event</u>
----------------------------------------------	--------------------------------------------

1st through 15th day	\$5,000
16th through 30th day	\$10,000
31st through 45th day	\$15,000
46th day and beyond	\$20,000

d. All deliverables and Work not identified in Paragraph B or Subparagraph (6)(a) through (6)(c) of this Paragraph C shall be Class II Requirements.

D. Stipulated Penalties for Special Circumstances

1. If EPA determines that Work Defendants have suspended performance of all or a portion of the Work, unless otherwise allowed by the terms of this Decree, they shall be deemed to be in violation of this Decree and shall pay a stipulated penalty of \$1,000,000, in lieu of other stipulated penalties for that specific violation.

2. In the event that EPA determines that Work Defendants have failed to perform any material portion of the Work or have performed any portion of the Work in a substantially inadequate or substantially untimely manner, or in the event of an imminent and substantial endangerment to public health or welfare or the environment resulting from the performance of, or failure to perform, Work by Work Defendants, Work Defendants shall pay a

stipulated penalty of \$1,000,000, in lieu of other stipulated penalties for that specific violation.

3. The costs incurred by EPA resulting from an EPA determination under Subparagraphs 1 and 2 of this Paragraph D shall not be allocable against the funding limitations of Paragraph C of Section IX (Work to be Performed), as provided in Paragraph B of Section XIX (Reimbursement of Future Response and Oversight Costs).

E. Stipulated Penalties for Cash Defendants

Each Cash Defendant's obligation for payment of stipulated penalties shall be limited to its obligation to make payments pursuant to Section VIII (Payments by Cash Defendants), Section X (Escrow Account) and Attachment A to this Decree. The amount of the penalties for any untimely payment or payment of less than the full amount due under this Decree shall be \$25,000 per day. Payments shall be made in accordance with Paragraph A of this Section.

XXIII. FORCE MAJEURE

For purposes of this Decree, force majeure is defined as any event arising from causes beyond the control of the Work Defendants, or their contractors, subcontractors or consultants which delays or prevents the performance of any obligation under this Decree, and could not have been overcome or prevented by the

1 Work Defendants' due diligence efforts. The Work Defendants
2 shall have the burden of proving that the delay was caused by
3 circumstances beyond the control of the Work Defendants.
4

5 When circumstances are occurring or have occurred that delay
6 or may delay the completion of any phase of the Work, and the
7 Work Defendants wish to invoke the provisions of this Section,
8 the Work Defendants shall, as soon as possible, notify EPA's
9 Project Coordinator orally and shall, within seven (7) calendar
10 days of oral notification to EPA, notify the EPA and the State
11 Project Coordinators in writing of the anticipated length and
12 cause of the delay, and to the extent possible, the following:
13 which of the tasks are directly affected by the delay; the
14 measures taken and/or to be taken to prevent or minimize the
15 delay; and the timetable by which the Work Defendants intend to
16 implement these measures. Failure of the Work Defendants to
17 comply with the notice requirements of this Section shall
18 constitute a waiver of that claim of force majeure.
19

20 Force majeure shall not include increased costs or expenses
21 of any of the Work to be performed under this Decree, nor the
22 financial inability of any of the Work Defendants to perform such
23 Work, nor the failure of Work Defendants to make timely
24 application for any required permits or approvals, and to provide
25 all information required therefor in a timely manner. The EPA
26 shall determine whether the event constitutes force majeure.
27
28

1 If EPA determines that the event did not constitute force
2 majeure, and the delay was not beyond the control of the Work
3 Defendants, this delay shall constitute non-compliance with the
4 Decree, and penalties shall accrue from the time of
5 noncompliance. If the EPA determines the event does constitute
6 force majeure, it shall, in consultation with the Work
7 Defendants, determine the appropriate modification to the
8 schedules in the Plans. No deadline shall be extended beyond
9 that period of time which is necessary to complete the activities
10 with the least amount of delay possible. The Work Defendants
11 shall adopt all practicable measures to avoid or minimize delay.
12

13 If the EPA and the Work Defendants cannot agree as to
14 whether the reason for the delay was a force majeure event, the
15 determination of the EPA shall control. If the Work Defendants
16 dispute this determination, the dispute shall be resolved by the
17 procedures outlined in Section XXIV (Dispute Resolution) of this
18 Decree.
19

20 The Cash Defendants shall not invoke the provisions of this
21 Section.
22

23 XXIV. DISPUTE RESOLUTION

24

25 As required by Section 121(e)(2) of CERCLA, the United
26 States, EPA, the State and the Work Defendants shall attempt to
27 resolve expeditiously and informally any disagreements arising
28
///

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1 under or from the implementation of this Decree or any Work
2 required hereunder.

3
4 If a dispute arises with respect to the meaning or
5 application of this Decree, it shall in the first instance be the
6 subject of informal good faith negotiations between EPA and the
7 Work Defendants, pursuant to Paragraph B of this Section. The
8 State may participate in these negotiations, consistent with the
9 provisions of Paragraphs A and D of Section XXXIV (State and
10 Local Agency Participation). In the event that the parties
11 concerned cannot resolve any dispute arising under this Decree,
12 then the interpretation advanced by EPA shall be considered
13 binding unless the Work Defendants invoke the dispute resolution
14 provisions of this Section. The Work Defendants' decision to
15 invoke dispute resolution shall not constitute a force majeure
16 under Section XXIII (Force Majeure), herein. The Work Defendants
17 reserve the right to dispute a determination regarding whether a
18 force majeure has occurred.

19
20 A. Notice

21
22 If the Work Defendants raise a good faith objection to any
23 EPA notice of disapproval, determination of inadequacy, or other
24 decision made pursuant to this Decree, or if the Work Defendants
25 conclude that EPA and the Work Defendants have otherwise reached
26 an impasse with regard to the requirements of this Decree, the
27 Work Defendants shall orally notify EPA immediately of their
28 objections. The Work Defendants shall subsequently provide

1 written notice to EPA and the State within seven (7) calendar
2 days of oral notification.

3
4 B. Informal Resolution Mechanism

5
6 EPA and the Work Defendants shall then have fourteen (14)
7 additional calendar days from the receipt by either party of the
8 written notification to reach agreement. DHS may participate in
9 these negotiations, consistent with the provisions of Paragraphs
10 A and D of Section XXXIV (State and Local Agency Participation).
11 If possible, such disputes shall be resolved by informal
12 telephone conferences. Any Party may also request that the
13 Parties confer to resolve the dispute through an informal
14 conference, to be held within this fourteen (14) calendar day
15 period. As appropriate, and upon agreement of the EPA, the State
16 and the Work Defendants, they may use independent technical
17 experts to assist in the resolution of solely technical disputes,
18 provided however that there is no written finding or
19 determination made by such technical expert. No product or
20 recommendation resulting from this consultation shall be offered
21 in evidence for any purpose in any proceeding. The Work
22 Defendants agree to pay for such independent experts and any such
23 costs shall be excluded from the limitations on expenditures set
24 forth in Paragraph C of Section IX (Work to be Performed).

25
26 At the end of this fourteen (14) calendar day period, or
27 within seven (7) calendar days after an informal conference is
28 held, whichever is later, EPA shall provide the Work Defendants

1 and the State a written statement of its decision signed by the
2 Superfund Enforcement Branch Chief, or his/her designee other
3 than the Project Coordinator, and the Work Defendants shall
4 implement the directives contained in such decision, subject to
5 the provisions of Paragraph C of this Section. If the Work
6 Defendants refuse to implement such directives, EPA or the State
7 may elect to perform such work, pursuant to Section XVIII
8 (Reservation of Rights), *infra*. If Paragraph C of this Section
9 is invoked, Plaintiffs may also elect to perform the work
10 required by the disputed directive, as provided in Section XVIII
11 (Reservation of Rights), and subject to Paragraphs A or B of
12 Section XIX (Reimbursement of Future Response and Oversight
13 Costs) and Section XXII (Stipulated Penalties).

14 C. Judicial Resolution

15 In the event that the dispute cannot be resolved by the
16 informal negotiation procedures outlined in Paragraphs A and B
17 above, and should the Work Defendants choose not to follow the
18 EPA position, the Work Defendants may file with the Court a
19 petition which shall describe the nature of the dispute and
20 include a proposal for its resolution. Work Defendants may not
21 file such a petition until informal negotiations pursuant to
22 Paragraph B, *supra*, are completed. The filing of a petition
23 asking the Court to resolve a dispute shall not of itself extend
24 or postpone the Work Defendants' obligations under this Decree
25 with respect to the disputed issue, or stay the provisions of
26 Section XXII (Stipulated Penalties), except that the EPA will not

1 demand payment of penalties accrued until completion of the
2 dispute resolution process.
3
4 Unless the Court establishes a different period for
5 response, Plaintiffs shall have thirty (30) days to respond to
6 the petition. In a dispute where the Work Defendants allege
7 delay attributable to force majeure, the Work Defendants shall
8 have the burden of demonstrating by a preponderance of the
9 evidence that the delay or anticipated delay has been or will be
10 caused by circumstances beyond their control which could not have
11 been overcome by due diligence, that the duration of the delay is
12 or was warranted under the circumstances, and that the Work
13 Defendants complied with the notice requirements of Section XXIII
14 (Force Majeure). In proceedings on any dispute relating to the
15 selection, technique, cost effectiveness or adequacy of any
16 aspect of the Work and in any other dispute subject to CERCLA
17 Section 113(j)(2), 42 U.S.C. § 9613(j)(2), in considering the
18 Work Defendants' objections, the Court shall uphold EPA's
19 decision unless the Work Defendants can demonstrate, on the
20 administrative record, that EPA's decision was arbitrary and
21 capricious or otherwise not in accordance with law. In other
22 disputes, except as specified above, the appropriate standard of
23 judicial review and scope of materials to be considered by the
24 Court shall be determined by the Court. In any proceedings on a
25 dispute, Work Defendants shall bear the burden of coming forward
26 with evidence and of persuasion on factual issues.
27 ///
28 ///

1 If the Court finds that the Work Defendants have not
2 satisfied their burden, the Work Defendants shall transmit
3 payment of all penalties which have accrued during the dispute,
4 plus interest at the rate specified in Section 107(a) of CERCLA,
5 to the Hazardous Substance Superfund, within fifteen (15) working
6 days of resolution of the dispute. The Work Defendants shall
7 then implement the disputed matter as resolved and perform the
8 work which was the subject of the dispute, if required. The
9 appropriate plans should be amended to reflect the resolution of
10 the dispute.

12 In any dispute in which the Work Defendants prevail: (1) the
13 deadlines for any affected deliverables shall be extended to
14 account fully for any delays attributable to the dispute
15 resolution procedures; and (2) any penalties which would
16 otherwise accrue for violation of any affected deliverable shall
17 be waived.

19 **XIV. FORM OF NOTICE**

21 All communications between the Work Defendants or their
22 Contractor(s), and EPA and the State made pursuant to this Decree
23 shall be sent to at least the Work Defendants, EPA, and the
24 State. Subject to Paragraph G of Section XVI (Data Exchange),
25 any Cash Defendant may obtain upon written request, a copy of any
26 or all such communications. The cost of copying any such
27 material shall be borne by the Cash Defendant making the request.
28 ///

1 When notification to or communication with the United
2 States, EPA, the Work Defendants, or the State is required by the
3 terms of this Decree, it shall be in writing, postage prepaid,
4 and addressed as follows:
5

6 **As to the United States:**

7
8 Chief
9 Environmental Enforcement Section
10 Land and Natural Resources Division
11 Department of Justice
12 10th and Pennsylvania Avenue, N.W.
13 Washington, D.C. 20530
14

15 **As to EPA:**

16
17 EPA Project Coordinator - OII Site
18 Superfund Enforcement Section (T-4-2)
19 U.S. Environmental Protection Agency
20 215 Fremont Street
21 San Francisco, CA 94105
22

23 Assistant Regional Counsel - OII Site
24 Office of Regional Counsel
25 U.S. Environmental Protection Agency
26 215 Fremont Street
27 San Francisco, CA 94105
28

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1 As to the Work Defendants:

2
3 Project Co-Chairmen
4 c/o Boone & Associates
5 Suite 204
6 901 Corporate Center Drive
7 Monterey Park, CA 91754

8
9 David A. Giannotti, Esq.
10 McKenna, Conner & Cuneo
11 444 South Flower Street
12 Los Angeles, CA 90071

13
14 J. Jeffrey Zimmerman, Esq.
15 Occidental Petroleum Corporation
16 1747 Pennsylvania Ave. N.W.
17 Washington, D.C. 20006

18
19 OII Work Defendant Project Coordinator
20 c/o Boone & Associates
21 Suite 204
22 901 Corporate Center Drive
23 Monterey Park, CA 91754

24 ///

25 ///

26 ///

27 ///

28 ///

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1 As to the State:

2
3 OII Project Coordinator
4 Department of Health Services
5 Toxic Substances Control Division
6 1405 San Fernando Road, Suite 300
7 Burbank, CA 91504

8
9 **XXVI. MODIFICATION**

10
11 Except as provided for in this Decree, there shall be no
12 modification of this Decree without written approval of EPA, the
13 State, the Defendants and the Court, or as ordered by the Court.

14
15 **XXVII. ADMISSIBILITY OF DATA**

16
17 For the purpose of this action only, the Parties waive any
18 evidentiary objection as to the authenticity of data gathered,
19 generated, or evaluated by any Party in the performance or
20 oversight of the Work under this Decree that has been verified
21 using the Quality Assurance and Quality Control procedures
22 specified in Section XII (Quality Assurance and Quality Control).

23
24 The Parties also waive any objections to the introduction of
25 such data based on hearsay for the purpose of this action only.

26 ///

27 ///

28 ///

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**XXVIII. DEFENDANTS' RIGHT OF CONTRIBUTION AND
INDEMNITY AND COVENANT NOT TO SUE EACH OTHER**

A. Each Defendant shall retain all rights under statutory or common law to seek contribution or indemnification against any and all other persons or entities not party to this Decree.

B. Except as provided in this Paragraph, to the extent that any Defendant has complied with its obligations hereunder, and, as among the Work Defendants only, with its obligations under any separate agreement allocating the costs hereof, no rights as to matters addressed in this Decree are retained against such Defendant by any other Defendant and such rights are hereby expressly waived, released and discharged with regard to such Defendant. Each Cash Defendant specifically retains any and all rights to seek indemnification from the Work Defendants as provided in Paragraph B of Section XXIV (Indemnification).

C. For and in consideration of the mutual covenants and promises of the Defendants made herein and, as to the Work Defendants only, in any separate agreement allocating the costs hereof, each Defendant hereby covenants not to sue or otherwise assert any claim against any other Defendant for reimbursement of any payment made pursuant to this Decree, except to enforce any allocation of costs made pursuant to such separate agreement.

///

///

///

XXIX. CONTRIBUTION PROTECTION

Pursuant to Sections 113(f)(2) and 122(h)(4) of CERCLA and other applicable federal and state law, Defendants shall not be liable to other persons or entities for contribution claims regarding Covered Matters. Nothing in this Section shall constitute or be construed as releasing or providing any Covenant Not to Sue or Contribution Protection with respect to Covered Matters to any person not a Defendant or to any Defendant which has defaulted on its obligations under this Decree. The United States and the State expressly reserve the right to bring any appropriate action against persons and entities not signatories hereto to recover response costs incurred by the United States and the State.

Each Cash Defendant's right to Contribution Protection under this Section shall remain in effect against all other persons provided it has not defaulted on any obligation under this Decree, whether or not any other Defendant has fully performed its obligations under this Decree. Each Work Defendant's right to Contribution Protection under this Section shall remain in effect against all other persons provided Work Defendants have not defaulted on any obligation under this Decree and that such Work Defendant has not defaulted on its obligations arising out of this Decree, whether or not any or all Cash Defendants has fully performed its obligations under this Decree.

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1 XXX. COVENANT NOT TO SUE

2
3 A. Except as provided in Paragraph C, upon the approval by
4 EPA of the final Work Completion Report and certification of
5 completion of the Work, including operations, maintenance and
6 monitoring, the United States, EPA, the State, the California
7 Hazardous Substance Account, and the Attorney General of
8 California (with respect to the authority under California
9 Government Code §§ 12600 - 12612) covenant not to sue the Work
10 Defendants with regard to the Covered Matters which are performed
11 satisfactorily by Work Defendants. "Covered Matters" shall mean
12 those conditions which the alternatives selected in the RODs
13 (attached as Appendices A and B) are designed to remedy, the Work
14 implemented under Section IX (Work to be Performed), oversight
15 costs associated with the performance of that Work and for all
16 past response costs, including interest accrued thereon, incurred
17 by the United States, the State and the California Hazardous
18 Substance Account up to June 1, 1988. Covered Matters
19 specifically do not include removals, remedial actions which will
20 be implemented pursuant to the final remedy, the gas control and
21 any future operable unit(s), or any environmental condition which
22 is identified in the RI/FS (except to the extent those removals,
23 remedial actions, or those environmental conditions are already
24 covered by Appendices A or B or the Work). The Parties also
25 agree that remedial actions for groundwater contamination, if
26 any, are not Covered Matters under this Decree. This Section is
27 not, and shall not be construed as, a Covenant Not to Sue any
28 Work Defendant that does not fulfill its obligations arising out

1 of this Decree, or any other person or entity not a Party to this
2 Decree. Under the provisions of Section IV (Binding Effect),
3 Work Defendants shall be jointly and severally responsible for
4 the performance of the Work Defendants' obligations outlined in
5 this Decree; provided however, that their rights to a Covenant
6 Not to Sue under this Decree shall not be affected by the
7 performance or nonperformance of any obligation by any Cash
8 Defendant under this Decree.
9

10 B. Except as provided in Paragraph C, upon receipt of all
11 payments required of each Cash Defendant under this Decree, the
12 United States, the State, the California Hazardous Substance
13 Account, and the Attorney General of California (with respect to
14 the authority under California Government Code §§ 12600 - 12612)
15 covenant not to sue that Cash Defendant for Covered Matters. Any
16 Cash Defendant can obtain the full benefit of this Covenant Not
17 to Sue by prepayment, at any time, of the balance of the total
18 amount due under Attachment A, Schedule 2. This Covenant Not to
19 Sue shall remain in effect with respect to any Cash Defendant
20 whether or not any other Defendant fulfills its obligations under
21 this Decree.
22

23 C. Defendants are expressly not released from, and the
24 provisions of Paragraphs A and B of this Section shall not apply
25 to, any matter which is not a Covered Matter, including the
26 following claims:
27
28

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1 1. Any claim based on a failure of any Defendant to meet
2 its obligations under this Decree;

3
4 2. Any other claims of the United States, the State, or the
5 California Hazardous Substance Account for any other costs or
6 actions necessary at the OII Site which are not covered pursuant
7 to the terms of this Decree;

8
9 3. Claims based on the Defendants' liability arising from
10 the past, present, or future disposal of hazardous substances not
11 associated with the OII Site at other disposal sites;

12
13 4. Any liability of Work Defendants for damage to federal
14 or state property located any place that the Work is being
15 performed;

16
17 5. Claims based on criminal liability;

18
19 6. Claims based on liability for damage to natural
20 resources as defined in CERCLA;

21
22 7. Claims based on liability for future monitoring or
23 oversight expenses incurred by the United States or the State
24 except as those expenses are Covered Matters; or

25
26 8. Liability on the part of the Work Defendants for any
27 violations of federal or state law which arises from
28 implementation of the Work.

1 D. The Defendants hereby release and covenant not to sue
2 the United States, including any and all departments, agencies,
3 officers, administrators, and representatives thereof, for any
4 claim, counter-claim, or cross-claim asserted, or that could have
5 been asserted prior to the effective date of this Decree arising
6 out of or relating to the OII Site, except for any liability
7 arising under Sections 107 or 113 of CERCLA relating to the OII
8 Site for any federal entity that has not resolved its liability
9 for Covered Matters under the provisions of this Decree or its
10 equivalent. Defendants also release and covenant not to sue the
11 State, including any and all officers, administrators, and
12 representatives thereof, for any claim, counter-claim, or
13 cross-claim asserted, or that could have been asserted prior to
14 the effective date of this Decree arising out of or relating to
15 the OII Site.

16
17 E. Nothing in this Decree shall constitute or be construed
18 as a release or a covenant not to sue regarding any claim or
19 cause of action against any person, as defined in Section 101(21)
20 of CERCLA or California Health and Safety Code, § 25319, or other
21 entity, not a signatory to this Decree for any liability it may
22 have arising out of or relating to the Site.

23
24 F. The Parties to this Decree agree that while the United
25 States, EPA and the State may support the applicability of
26 Section XXIX (Contribution Protection) based upon the existence
27 of this Decree, neither the United States, nor EPA nor the State
28 shall be under any obligation to assist the Defendants in any way

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1 in defending against suits for contribution brought against the
2 Defendants which allege liability for matters covered by this
3 Covenant Not to Sue by persons or entities that have not entered
4 into this settlement.
5

6 G. The Covenants Not to Sue under Paragraphs A, B and D
7 contained in this Section shall also apply to:
8

9 1. Each Defendant's directors, officers and employees as to
10 their actions in that capacity for that Defendant, and
11

12 2. Each Defendant's successors and assigns except to any
13 liability of such successor or assign which arose independently
14 of the liability of that Defendant.
15

16 XXXI. WAIVER OF CLAIM-SPLITTING DEFENSE
17

18 All Parties recognize and acknowledge that the settlement
19 embodied in this Decree is only a partial resolution of issues
20 related to the remediation of conditions at the Site. Defendants
21 hereby waive the defenses of res judicata, collateral estoppel,
22 and claim-splitting by the Plaintiffs, only with respect to the
23 Plaintiffs' rights to pursue subsequent litigation regarding
24 Defendants' responsibility for phases of Site work and costs not
25 covered by this Decree.
26 ///
27 ///
28 ///

1 XXXII. COMMUNITY RELATIONS
2

3 The Work Defendants shall cooperate with EPA and the State
4 in providing information to the public. As requested by EPA or
5 the State, the Work Defendants shall participate in the
6 preparation of all appropriate information disseminated to the
7 public and in public meeting(s) which may be held or sponsored by
8 EPA or the State to explain activities at or concerning the Site
9 relative to the Work required under the terms of this Decree. As
10 appropriate, EPA or the State may seek consultation with and
11 assistance from Work Defendants in the preparation of information
12 disseminated to the public and in public meeting(s) which may be
13 held or sponsored by EPA or the State to explain activities at or
14 concerning the Site.
15

16 XXXIII. LODGING AND PUBLIC PARTICIPATION
17

18 Pursuant to Section 122(d) of CERCLA, 42 U.S.C. § 9622(d),
19 this Decree will be lodged with the Court for thirty (30) days,
20 and the United States shall publish a Notice of Availability of
21 review to allow public comment prior to entry by the Court. The
22 United States will file with the Court a copy of any comments
23 received and the responses of the United States to such comments.
24

25 No Party shall be bound by modifications to this Decree
26 without its prior written consent, and consent to this Decree is
27 not consent to such modifications.
28 ///

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1 **XXXIV. STATE AND LOCAL AGENCY PARTICIPATION**

2
3 **A. Lead Agency**

4
5 EPA is and shall be the lead agency, as defined in the MCP,
6 for the activities within the scope of this Decree.

7
8 **B. Interagency Committee**

9
10 The Operating Industries Interagency Committee ("IAC")
11 consists of interested state and local agencies. The IAC meets
12 on a regular basis to exchange information on agency regulatory
13 activities at the OII Site and reviews and comments on remedial
14 and response actions undertaken at the Site. The IAC has a
15 Technical Subcommittee ("IAC Technical Subcommittee") which
16 exchanges technical information and which is primarily
17 responsible for reviewing and commenting on the remedial and
18 response actions.

19
20 **C. Role of Interagency Committee**

21
22 The Work Defendants shall make available copies of
23 significant deliverables in this Decree, such as Plans, Designs
24 and the Operations Manual, to the members of the IAC for review.
25 EPA will provide Work Defendants with a current mailing list for
26 IAC members prior to the effective date of this Decree. After
27 the IAC Technical Subcommittee and any other interested IAC
28 members have had the opportunity to review the deliverables, they

1 shall have the opportunity to meet with EPA and the State to
2 discuss the deliverables and prepare collaborative comments.
3 These collaborative comments shall be submitted to the Work
4 Defendants as EPA comments. The Work Defendants shall respond to
5 the EPA comments as may be required by the terms of Section IX
6 (Work to be Performed) and subject to Work Defendants right under
7 Section XXIV (Dispute Resolution).
8

9 D. EPA will consult with the State before approving any
10 significant deliverables required to be submitted by the Work
11 Defendants under this Decree. EPA will also consult with the
12 State before determining whether a force majeure event beyond the
13 control of the Work Defendants has occurred, and whether the Work
14 Defendants have substantially complied with or completed the
15 terms of this Decree. EPA's failure to consult with the State
16 will not relieve the Work Defendants of any obligation to comply
17 with the requirements of this Decree. If it is not practicable
18 for EPA to consult with the State, EPA shall notify the State of
19 its approval or determination as soon as possible. The State's
20 failure to object in a timely manner to an approval,
21 determination, or other decision of EPA made under this Decree
22 shall constitute concurrence with EPA.
23

24 **XXIV. CONSISTENCY WITH THE MCP**

25
26 The United States, the State and the Defendants agree that
27 the Work, if performed in accordance with the requirements of
28 this Decree, is consistent with the provisions of the National

1 Oil and Hazardous Substances Pollution Contingency Plan, 40
2 C.F.R. Part 300, pursuant to Section 105 of CERCLA 42 U.S.C.
3 § 9605.

5 XXXVI. INDEMNIFICATION

7 A. The Work Defendants shall indemnify the United States
8 with respect to EPA, USACE and the U.S. Coast Guard, and the
9 State and save and hold the United States with respect to EPA,
10 USACE and the U.S. Coast Guard, and the State, and any of their
11 divisions, departments, agents and employees harmless for any and
12 all claims or causes of action arising from any injuries or
13 damages to persons or property resulting from any negligent,
14 wanton or willful acts or omissions of the Work Defendants, or
15 their successors, assigns, contractors, subcontractors, or any
16 other person acting on their behalf in carrying out any
17 activities pursuant to the terms of this Decree. This
18 indemnification does not extend to that portion of any such claim
19 or cause of action attributable to the negligent, wanton or
20 willful acts or omissions of the United States with respect to
21 EPA, USACE, or the U.S. Coast Guard, or the State or their
22 contractors, subcontractors or any other person acting on their
23 behalf in carrying out activities at the Site. The United States
24 and the State shall notify Work Defendants of any such claims or
25 actions within thirty (30) days of receiving notice that such a
26 claim or action has been filed. The Work Defendants have the
27 right to intervention under Section 113(i) of CERCLA, if
28 ///

1 applicable, and to seek intervention under the provisions of
2 F.R.Civ. P. 24 and California Code of Civil Procedure § 387.

4 Neither Plaintiffs nor Cash Defendants are parties to any
5 contract entered into by the Work Defendants at the Site.

7 B. Work Defendants agree to indemnify and hold Cash
8 Defendants and their directors, officers and employees harmless
9 from damages or claims arising as a result of negligent
10 performance of the Work, or of negligent, willful, or wanton
11 failure to perform the Work by the Work Defendants or their
12 contractors or subcontractors. This indemnity and hold harmless
13 as to Cash Defendants shall not apply to any Cash Defendant which
14 is not in compliance with the terms of this Decree. Furthermore,
15 this indemnity and hold harmless shall not include any damages or
16 claims arising as a result of any negligent, willful or wanton
17 act or omission of any Cash Defendant or its directors, officers
18 or employees, nor shall it include any damages or claims which
19 arise or result from conditions at the Site which are not the
20 result of the Work performed under this Decree by the Work
21 Defendants or their contractors or subcontractors. Without
22 limiting the foregoing, the Work Defendants' obligation as to the
23 Cash Defendants shall not apply to any claim or cause of action
24 arising prior to the effective date of this Decree or to the
25 extent of any liability attributable to any third party,
26 including EPA, the State or any Cash Defendant. Any Cash
27 Defendant shall notify Work Defendants of any such claim or
28 action within thirty (30) days of receiving notice that such a

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1 claim or action has been filed. Work Defendants shall have the
2 right to join in the defense of all claims or causes of action
3 within the scope of this indemnification. Further, unless Work
4 Defendants refuse to join in the defense as herein provided, Cash
5 Defendants shall not take or fail to take any action which would
6 prejudice Work Defendants' rights, privileges, defenses, or
7 claims, and shall not settle any claim or cause of action within
8 the scope of this indemnification without the consent of the Work
9 Defendants. Nothing in this Paragraph B shall be construed to
10 affect or pertain to the indemnification of the United States or
11 State, as set forth in Paragraph A of this Section.

12
13 **XXXVII. CLAIMS AGAINST THE FUND**
14

15 Nothing in this Decree shall be deemed to constitute a
16 preauthorization of a CERCLA claim within the meaning of
17 Sections 111 or 112 of CERCLA or 40 C.F.R. § 300.25(d). In
18 consideration of the entry of this Decree, Defendants agree not
19 to make any claims pursuant to Section 112 or Section 106(b)(2),
20 42 U.S.C. §§ 9612, 9606(b)(2), or any other provision of law
21 directly or indirectly against the Hazardous Substance Superfund,
22 or make other claims against the United States or the State for
those costs expended in connection with this Decree.

24
25 **XXXVIII. CONTINUING JURISDICTION**
26

27 The Court specifically retains jurisdiction over both the
28 subject matter of and the Parties to this action for the duration

1 of this Decree for the purposes of issuing such further orders or
2 directions as may be necessary or appropriate to construe,
3 implement, modify, enforce or terminate the terms of this Decree
4 or for any further relief as the interest of justice may require.
5

6 **XXXIX. REPRESENTATIVE AUTHORITY**
7

8 Each undersigned representative of the Parties to this
9 Decree certifies that he or she is fully authorized by the Party
10 to enter into and execute the terms and conditions of this
11 Decree, and to legally bind such Party to this Decree.
12

13 **XL. EFFECTIVE DATE**
14

15 This Decree is effective upon the date of its entry by the
16 Court.
17

18 **XLI. TERMINATION AND SATISFACTION**
19

20 Upon completion of the Work to be performed pursuant to this
21 Decree, or upon occurrence of an event terminating Work
22 Defendants' obligations, as described in Paragraph C of Section
23 IX (Work to be Performed), Work Defendants shall submit to
24 Plaintiffs a written certification that the Work has been
25 completed in accordance and in full compliance, or that they have
26 otherwise satisfied their obligations in accordance and in full
27 compliance, with this Decree. Within sixty (60) days of receipt
28 of such certification, EPA shall approve or disapprove the

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1 certification subject to the provisions of Paragraphs A and D of
2 Section XXXIV (State and Local Agency Participation). The
3 provisions of this Decree, including Work Defendants' obligations
4 for Covered Matters, other than Section XVII (Retention of
5 Records), shall be deemed satisfied upon the Work Defendants'
6 receipt of such written approval from EPA; provided that
7 termination of this Decree shall not alter the provisions of
8 Section XVIII (Reservation of Rights), Section XXIX (Contribution
9 Protection), Section XXX (Covenant Not to Sue) and such other
10 continuing rights and obligations of Work Defendants under this
11 Decree.

12
13 Upon full payment of all its obligations under Section VIII
14 (Payments by Cash Defendants), Section X (Escrow Account) and
15 Attachment A, each Cash Defendant shall have satisfied its
16 obligations for Covered Matters under this Decree, and this
17 Decree shall be terminated as to that Cash Defendant, provided
18 that the termination shall not alter the provisions of
19 Section XVIII (Reservation of Rights), Section XXIX (Contribution
20 Protection), Section XXX (Covenant Not to Sue) and such other
21 continuing rights and obligations of that Cash Defendant under
22 this Decree.

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XIII. SECTION HEADINGS

The section headings set forth in this Decree and its Table
of Contents are included for convenience of reference only and
shall be disregarded in the construction and interpretation of
any of the provisions of this Decree.

XIV. COUNTERPARTS

This Decree may be executed and delivered in any number of
counterparts, each of which when executed and delivered shall be
deemed to be an original, but such counterparts shall together
constitute one and the same document.

SIGNED and ENTERED this 7 day of December, 1988.

Margaret R. Plach
UNITED STATES DISTRICT JUDGE

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ATTACHMENT A

SCHEDULE 1

NAME OF COMPANY	EPA PAYMENT	STATE PAYMENT
Aluminum Company of America	\$ 699,200	\$ 6,080
American Can/Primerica Corporation	95,087	827
American National Can	5,715,863	49,703
Anchorlok Corp. for Anchorlok	292,100	2,540
Lear Siegler Corp. and Royal Industries, Inc.		
Aratex Services, Inc., for Red Star Industrial Service	146,050	1,270
Armco Inc.	169,250	950
Reatrice/Hunt-Wesson, Inc.	196,650	1,710
Al-Titan Services Company, for B.J. Services Equipment Company	81,650	710
Borden, Inc.	94,300	820
CalMat Co. for Comrock Co.	100,050	870
Champion International Corporation for St. Regis	90,850	790
Coca-Cola Bottling Company of Los Angeles	92,000	800
The Coca-Cola Company	14,950	130
Devidson P.W.P.	96,600	840
Department of Water and Power of the City of Los Angeles	437,000	3,800
Edgington Oil	289,800	2,520
Emerson & Cuming Inc.	177,100	1,540

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The Firestone Tire & Rubber Company	104,650	910
Flint Ink Corporation	197,800	1,720
FPCO Oil & Gas Co. for Petro-Lewis Corporation	98,900	860
Franciscan Ceramics, Inc.	184,000	1,600
General Latex and Chemical Corporation	110,400	960
Hydril Company	88,550	770
International Extrusion Corporation	85,100	740
International Paper Company	158,700	1,380
Interpace Corporation	745,200	6,480
Kiewit Continental Inc. for Continental Can	2,251,700	19,580
Lockheed Aeronautical Systems Company a division of Lockheed Corporation	815,350	7,090
Longview Fibre Company	80,500	700
Luxfer USA Limited	119,600	1,040
Maytag Corporation for Gaffers & Battler	141,450	1,230
McAuley LCX Corporation	126,500	1,100
Mitchell Energy Corporation	317,400	2,760
Owens-Illinois, Inc.	90,850	790
Quantum Chemical Corporation, Emery Division	400,200	3,480
Reichhold Chemicals, Inc.	261,050	2,270
Reisner Metals, Inc.	108,100	940
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1	Oil/RC Bottling Companies of	86,250	750
2	Southern California		
3	Soule'-Arnon Liquidating Agency	1,918,000	11,200
4	Southwest Processors, Inc./Ameroil*	444,015	3,861
5	Stroh Container Company for	320,850	2,790
6	Schlitz Brewing Company		
7	SupraCote, Inc.	98,900	860
8	The Times Mirror Company for	171,350	1,490
9	Los Angeles Times and Times		
10	Mirror Press		
11	Tree Island Industries Ltd.	113,850	990
12	TRW Inc.	269,300	1,820
13	Union Carbide Corporation	34,500	300
14	United Air Lines, Inc.	125,350	1,090
15	United Parcel Service of	101,200	860
16	America, Inc.		
17	United States Brass Corporation	323,150	2,810
18	for Eastman Central		
19	Van Waters & Rogers	96,600	840
20			
21	* For purposes of Paragraph H of Section XVIII (Reservation of		
22	Rights) the amount paid by Southwest Processors, Inc. for		
23	Southwest Processors, Inc. and Ameroil shall be considered to be		
24	\$403,650 to EPA and \$3,510 to the State.		
25	///		
26	///		
27	///		
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1
2 All checks should reference the Oil site, and be addressed to
3 For EPA: For the State:
4 (checks should be made out to: California Department of
5 "Oil Steering Committee Health Services
6 Escrow Account--Consent Decree Toxics Substances Control
7 I (Cash Fund)* and sent to: Division
8 Attention: Department Manager P.O. Box 942732
9 Institutional Custody Services Sacramento, CA 94234-7320
10 First Interstate Bank of
11 California
12 707 Wilshire Boulevard, W9-4
13 Los Angeles, California 90017
14 These funds shall be paid out and administered according to the
15 provisions of Section IX (Work to be Performed), Section X
16 (Escrow Account), Section XIX (Reimbursement of Future Response
17 and Oversight Costs) and Section XX (Reimbursement of Past
18 Costs).
19 A copy of all transmittal letters and a copy of each
20 check submitted under Schedules 1 and 2 of this Attachment shall
21 be sent to the EPA, the State, and the Work Defendants' Project
22 Coordinators.
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SCHEDULE 2

Union Pacific	Atlantic	Exxon
Resources Co.	Richfield Co.	Corporation
for Champlin	including	
Petroleum Co.	Anaconda	
	American Brass	

Initial Payment \$390,952.10 1,278,045.20 1,074,679.99

to EPA:

Payment to the State: 15,610.00 51,030.00 42,910.00

Year 1 Payment 1,014,142.93 3,315,292.35 2,787,756.12

to EPA:

Year 2 Payment 195,027.49 637,556.22 536,106.95

to EPA:

Year 3 Payment 195,027.49 637,556.22 536,106.95

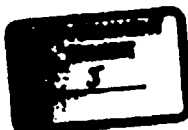
to EPA:

The initial payments to EPA and the payments to the State shall be made within thirty (30) days after the Cash Defendants receive written notice of the entry of this Decree and Year 1, Year 2, and Year 3 payments shall be due twelve (12), twenty four (24), and thirty six (36) months thereafter. The checks should reference the OII Site, and be addressed to:

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For EPA:

For the State:

U.S. EPA - Region 9

California Department of

Attn: Superfund Accounting

Health Services

P.O. Box 160863 M

Toxics Substances Control

Pittsburgh, PA 15251

Division

P.O. Box 942732

Sacramento, CA 94234-7320

A copy of all transmittal letters and a copy of each check submitted under Schedules 1 and 2 of this Attachment shall be sent to the EPA, the State, and the Work Defendants' Project Coordinators.

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ATTACHMENT E

- 1
- 2 Work Defendants:
- 3 Allied-Signal Inc. for Garrett Airosearch
- 4 American Airlines, Inc.
- 5 Bethlehem Steel Corporation
- 6 Bell Laboratories, Inc.
- 7 Borg-Warner Corporation for Byron Jackson Pump Division
- 8 Calgon Corporation/Calgon Vestal Laboratories
- 9 Carnation Company
- 10 Chevron Chemical Company
- 11 Chevron Pipe Line Co.
- 12 Chevron U.S.A. Inc.
- 13 Conoco Inc.
- 14 Cooper Drum Company for Superior Drum
- 15 Crowley Maritime Corporation on behalf of its wholly owned
- 16 subsidiaries Crowley Towing & Transportation Co. and Crowley
- 17 Environmental Services Corporation
- 18 Deft, Inc.
- 19 Delta Air Lines, Inc. for Western Airlines
- 20 Douglas Oil Company
- 21 Dunn-Edwards Corporation
- 22 The Flying Tiger Line Inc.
- 23 GATX Terminals Corporation
- 24 General Felt Industries, Inc., a division of Knoll International
- 25 Holdings, Inc.
- 26 General Motors Company
- 27 Georgia-Pacific Corporation
- 28 Hughes Aircraft Company

- 1 Ingersoll-Rand Company for Proto Tool
- 2 Insilco Corporation for Sinclair Paint Company
- 3 Jaybee MFG
- 4 Kenosha Auto Transport Corporation
- 5 Lever Brothers Company, Inc.
- 6 Liberty Vegetable Oil Company
- 7 Long Beach Oil Development Company
- 8 Long Beach Unit, Wilmington Oil Field, California (City of Long
- 9 Beach, Unit Operator-THUMS Long Beach Company, Agent for
- 10 Field Contractor
- 11 Major Paint Company
- 12 Max Factor & Co.
- 13 Martin Marietta Corporation for Martin Marietta Carbon, Inc. and
- 14 Commonwealth Aluminum Corporation
- 15 McDonnell Douglas Corporation for Douglas Aircraft
- 16 Menasco, Inc.
- 17 Mobil Oil Corporation including Superior Oil Company
- 18 NI Industries, Inc. for Morris, Inc.
- 19 NL Industries, Inc., for NL Metals
- 20 Occidental Petroleum Corporation
- 21 Parker-Hannifin Corporation for Bertec Corporation
- 22 PPG Industries, Inc.
- 23 The Procter & Gamble Manufacturing Company
- 24 Reynolds Metals Company
- 25 Safeway Stores, Incorporated
- 26 Santa Fe Energy Company/Chanslor Western Oil Development
- 27 Shell Oil Company
- 28 Southern California Edison

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1 Southern California Gas
2 Southern California Rapid Transit District
3 Southern Pacific Transportation Company
4 Southwestern Engineering Company
5 Sparklette Drinking Water Corporation
6 Superior Industries International, Inc.
7 Sun Oil Company
8 Texaco Inc. including Richfield East Dome Unit and Signal Hill
9 West Unit and subsidiaries
10 Transportation Leasing Company for The Greyhound Corp.
11 USC Corporation for Mollytex Carpet Mills
12 Union Oil Company of California
13 The Uniroyal Goodrich Tire Company
14 Welch's Overall Cleaning Co., Inc. for Welch's Industrial Uniform
15 Willamette Industries, Inc. for Western Kraft
16 Xerox Corporation
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ATTACHMENT C

OPERATING INDUSTRIES, INC. VOLUME IIC TOTALS *
SEPTEMBER 1, 1988

Rank	Generator	Dollars	Tons	Other	Total Volume Converted to Dollars **	% of Total
1	Chevron USA/Gulf	12,750,607	5,219	37,050	14,094,002	7.72%
2	ARCO/Amoco	7,777,751	11	2,595	9,200,002	5.10%
3	National Can	9,040,009	0	5,052	9,045,551	4.97%
4	Texaco Inc./Gulft	6,912,703	761	12,933	6,779,521	4.82%
5	Esso USA	7,000,552	0	2,775	7,011,257	4.29%
6	McDonnell Douglas Aircraft.	6,746,025	0	15,435	6,762,000	3.71%
7	Union Oil Co.	6,230,541	0	0,004	6,217,505	3.43%
8	Morris Inc.	4,722,320	3,000	95,021	5,501,172	3.06%
9	Sun Oil Co.	5,257,000	0	6,000	5,264,000	2.89%
10	Occidental Petroleum	4,470,500	0	500	4,471,000	2.45%
11	Mobil Oil Corp.	2,536,900	12	9,000	4,272,933	2.34%
12	So. Cal. Gas Co.	5,572,500	100	5,100	5,602,724	3.07%
13	Continental Can	3,557,055	0	6,400	3,564,335	1.95%
14	Routh Transportation/I.I. Corp.	1,775,130	0	350	5,521,119	1.93%
15	Shell Oil Co.	3,440,070	0	1,040	3,442,910	1.89%
16	Pumping Oil Co.	3,302,620	0	10,542	3,421,162	1.86%
17	Santa Fe Energy/C.U.O.D.	3,079,341	0	2,301	3,300,007	1.86%
18	Martin Marietta Alum Inc	3,079,120	0	10,005	3,009,925	1.69%
19	Del Amo Energy	3,070,000	0	6,000	3,082,000	1.68%
20	Champion Petroleum Co.	2,040,344	0	1,000	2,042,144	1.16%
21	Filtrol Corp	2,035,340	0	1,350	2,036,690	1.15%
22	Smith Tool	2,434,715	0	2,000	2,436,792	1.33%
23	Soule Steel	2,300,299	0	5,970	2,402,277	1.32%
24	Asbury Oil Co.	2,307,330	0	1,170	2,308,700	1.21%
25	Douglas Oil Co./Kerosene	1,016,122	0	200	2,044,572	1.12%
26	Kay-Brumser Steel	1,756,210	0	600	1,756,610	0.96%
27	BNC	1,346,563	417	60,670	1,524,776	0.83%
28	Long Beach Oil Development	1,407,420	0	5092	1,412,512	0.77%
29	Rachelle Lab.	1,000,970	0	5,300	1,292,170	0.71%
30	Lockhead Act.	1,302,300	0	7,000	1,290,100	0.70%
31	Beverly Hills Oil Assoc.	1,170,520	0	2,050	1,180,550	0.64%
32	Interpace Corp.	1,154,044	0	26,345	1,180,301	0.64%
33	ALCOA Verman Metals	1,104,605	0	1,470	1,105,955	0.60%
34	So. Cal. Chemical	904,700	0	62,000	906,700	0.54%
35	So. Cal. Oil	820,500	0	109,500	930,000	0.51%
36	De Ruvo-Kordman	907,200	100	300	932,500	0.51%
37	Am. Unilite Brewing Co.,	800,000	0	10,000	800,000	0.47%
38	Davis & Walker Wire	805,307	0	605	805,772	0.47%
39	Corbett Aerospace	804,004	0	590	805,204	0.47%
40	Argo Petroleum Corp.	862,902	0	600	863,502	0.46%

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OPERATING INDUSTRIES, INC. - VALUATION TOTALS -
SEPTEMBER 1, 1968

OPERATING INDUSTRIES, INC. - UNAUDITED TOTALS *					
PERIOD END, 1980					
Rank	Generator	Bottom	Top	Other	Total Volume Converted to Bottom =
1	41 Foster Steel Foundry Works	814,000	0	0	814,000
2	42 AET Inc.	761,700	0	0	761,700
3	43 American Airlines	761,700	0	20,911	782,611
4	44 Pittsfield Inc.	761,700	0	3,000	764,700
5	45 Petroleum Steel Corp.	722,000	0	4,000	726,000
6	46 Lincoln Steel Corp.	722,000	0	0	722,000
7	47 South Oil Co.	691,700	0	0	691,700
8	48 Corporation of Motor & Power	691,700	0	0	691,700
9	49 Energy Industries	691,700	0	4,075	695,775
10	50 to Col. Edison Co.	691,700	0	0	691,700
11	51 Pacific Electric & Chemical Co.	691,700	0	0	691,700
12	52 Kern Foods Inc.	691,700	0	0	691,700
13	53 Irving Pacific	691,700	0	0	691,700
14	54 Petroleum Metals	691,700	0	0	691,700
15	55 North Oil Co.	691,700	0	0	691,700
16	56 Steel Castings	691,700	0	0	691,700
17	57 Crown Corp.	691,700	0	0	691,700
18	58 Martin Oil Service Co.	691,700	0	0	691,700
19	59 Eastern Control	691,700	0	0	691,700
20	60 Union Long Beach	691,700	0	0	691,700
21	61 Mitchell Energy Corp.	691,700	0	0	691,700
22	62 Green American Pump Div.	691,700	0	0	691,700
23	63 Price Tools	691,700	0	0	691,700
24	64 Amco	691,700	0	0	691,700
25	65 Western Truck Wash	691,700	0	0	691,700
26	66 Liberty Pipeable Oil Co.	691,700	0	1,125	692,825
27	67 Price Tools	691,700	0	0	691,700
28	68 Englewood Oil	691,700	0	0	691,700
29	69 California Milk Producers	691,700	0	0	691,700
30	70 Allen Foods Inc.	691,700	0	0	691,700
31	71 Long Beach Steel Shipyard	691,700	0	0	691,700
32	72 American Paper Shaper Corp./Fremont	691,700	0	0	691,700
33	73 Solidback Chemicals	691,700	0	0	691,700
34	74 Southern Oil Co.	691,700	0	0	691,700
35	75 Southern Oil Co.	691,700	0	0	691,700
36	76 Southern Profit Corp.	691,700	0	0	691,700
37	77 Crowley Maritime Corp.	691,700	0	0	691,700
38	78 American Paper Shaper Corp.	691,700	0	0	691,700
39	79 American Paper Shaper Corp.	691,700	0	0	691,700
40	80 Southern Profit Corp.	691,700	0	0	691,700

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OPERATING INDUSTRIES, INC. - VALUATION TOTALS -
SEPTEMBER 1, 1968

OPERATING INDUSTRIES, INC. - CONSOLIDATED TOTALS -						
DEFINITION 1, 1968						
Rank	Generator	Bottom	Top	Other	Total Volume Converted to Bottom **	% of Total
1	81 Wm. B. Buckleup & Sons Corp.	345,700	0	0	345,700	0.190%
2	82 Major Philip B. Weyland Co.	325,500	0	0	325,500	0.180%
3	83 Southern Pacific Transportation	325,500	0	0	325,500	0.180%
4	84 TWC Clinch Growth	325,500	0	0	325,500	0.180%
5	85 Superior Brum	325,500	0	0	325,500	0.180%
6	86 American Layer Slaughter Corp.	325,500	0	0	325,500	0.180%
7	87 Continental Corporation of Amer.	325,500	0	0	325,500	0.180%
8	88 S. Ross Company	325,500	0	0	325,500	0.180%
9	89 ACI Controller Co.	325,500	0	0	325,500	0.180%
10	90 Superior Industries	325,500	0	0	325,500	0.180%
11	91 Alfine Ind. Corp.	325,500	0	0	325,500	0.180%
12	92 Super-Union Foods, Inc.	325,500	0	0	325,500	0.180%
13	93 Emerson and Cuming, Inc.	325,500	0	0	325,500	0.180%
14	94 S. C. Pilling Company	325,500	0	0	325,500	0.180%
15	95 Los Angeles Times-Picayune Press	325,500	0	0	325,500	0.180%
16	97 Crosby and Swanton, Inc.	325,500	0	0	325,500	0.180%
17	98 PPG Industries, Inc.	325,500	0	0	325,500	0.180%
18	99 Western Air Lines	325,500	0	0	325,500	0.180%
19	100 Northwestern Engineering Co.	325,500	0	0	325,500	0.180%
20	102 Unifrayl Inc.	325,500	0	0	325,500	0.180%
21	103 Standard Oil and Gas	325,500	0	0	325,500	0.180%
22	104 International Paper Co.	325,500	0	0	325,500	0.180%
23	105 Mechanical Metal Finishing Co.	325,500	0	0	325,500	0.180%
24	106 Standard Oil and Gas	325,500	0	0	325,500	0.180%
25	107 East Star Industrial Corp.	325,500	0	0	325,500	0.180%
26	108 Eastern Air Lines	325,500	0	0	325,500	0.180%
27	109 Western Profit Corp.	325,500	0	0	325,500	0.180%
28	110 United Fruit Industries, Inc.	325,500	0	0	325,500	0.180%
29	111 Fletcher Oil & Refining Co.	325,500	0	0	325,500	0.180%
30	112 General Foods Industries, Inc.	325,500	0	0	325,500	0.180%
31	113 Western Profit Corp.	325,500	0	0	325,500	0.180%
32	114 Southern Profit Corp.	325,500	0	0	325,500	0.180%
33	115 Wm. B. Buckleup	325,500	0	0	325,500	0.180%
34	116 Southern Profit Corp.	325,500	0	0	325,500	0.180%
35	117 Southern Profit Corp.	325,500	0	0	325,500	0.180%
36	118 Southern Profit Corp.	325,500	0	0	325,500	0.180%
37	119 Southern Profit Corp.	325,500	0	0	325,500	0.180%
38	120 Southern Profit Corp.	325,500	0	0	325,500	0.180%

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OPERATING INQUIRY, INC. TEL: 601-351-1000
3401 W. 10TH

Stock	Manufacturer	Editions	Time	Other	Total editions Converted to editions --	% of Total
161 Gordon Chemical Co.		169,270	0	50	169,320	0.0027
162 Steel-Spools of America		169,310	0		169,310	0.0027
163 Bell, Inc.		167,133	0	266	167,373	0.0031
164 Coca-Cola Bottling Co. of LA		164,000	0		164,000	0.0026
165 Brown-Bittelle		164,430	0	130	164,560	0.0027
166 St. Regis Paper Co.		162,636	0	527	163,163	0.0027
167 United Fruit		161,000	0	0	161,000	0.0027
168 Paper II Co.		160,550	0		160,550	0.0027
169 Georgia Electric Corp.		159,310	0	330	159,640	0.0027
170 Lever Brothers		159,300	0	1600	157,620	0.0026
171 Kenney-Bottling Co. of LA		155,720	0		155,720	0.0026
172 International Education		153,630	0	900	155,010	0.0026
173 Pepsi Industries, International		150,400	0		150,400	0.0026
174 Quakerite Printing Water Corp		153,947	0	600	153,947	0.0026
175 Longtin Glass		150,500	0	0	150,500	0.0026
176 B.J. Service Equipment Co.		149,750	0	500	150,010	0.0026
177 Longtin Fibre Co.		127,000	0	225	126,115	0.0020
178 Capital Institute Co., Inc.		126,500	0	900	126,240	0.0020
179 H & J Industrial Waste Products		109,635	0	7000	113,335	0.0020
180 Union Carbide Corp.		51,700	0	0	51,700	0.0008
181 C&C Co.		25,200	0	0	25,200	0.0004
182 Coca-Cola Company		26,450	0	0	26,450	0.0004

The volume is based on records obtained from Operating Industries, Inc., and is subject to change as more information is gathered.

OPERATING INDUSTRIES, INC. VOLUMETRIC TOTALS -
SEPTEMBER 1, 1988

Includes includes Getty (1,668,798 gals)
Includes includes Gulf (452,010 gals)
Includes includes Superior (1,726,636 gals)
Sante Fe Energy includes C.M.O.D. (350,360 gals)
Burgess includes Conoco (228,950 gals)
ARCO includes Amoco (1,305,385 gals)
South Transportation includes S.T. Corp. (1,765,689 gals)
American Petro includes Trouba (344,870 gals)

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APPENDIX C

Oil Landfill

SCM/LMS

Scope of Work

PARTIAL CONSENT DECREE



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APPENDIX C **OII LANDFILL** **SCM/LMS** **SCOPE OF WORK**

August 18, 1988

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1.0 INTRODUCTION, INTENT AND OBJECTIVES

1.1 INTRODUCTION

1. This Scope of Work document summarizes the Site Control and Monitoring (SCM) and Leachate Management System (LMS) activities to be undertaken by the Work Defendants in compliance with this Decree.

2. The Work shall be consistent with the decisions set forth in the Records of Decision (RODs) presented in Appendices A and B and performed pursuant to Section IX (Work to be Performed) of this Decree. For purposes of this Scope of Work, the activities from the RODs are functionally divided into the following two areas:

- SCM includes control, maintenance, monitoring and improvements of the following elements:
 - Gas Control
 - Storm Water/Erosion Control
 - Landscaping/Irrigation
 - Access Roads
 - Fences
 - Support Facilities and Utilities
- LMS includes control, maintenance, monitoring and improvements to the following functions:
 - Liquid Collection
 - Interim Transport and Offsite Treatment and Disposal
 - Pretreatment and Transport Piping
 - Influent Storage and Liquid Treatment
 - Effluent Storage and Transport

Initially, the liquids shall be hauled offsite for treatment and disposal. A major, planned LMS project will be to design and construct an onsite treatment system to handle all or most of the liquids.

3. The Scope of Work is presented in the following format:

- The remainder of Chapter 1.0 discusses the intent and objectives for the SCM and LMS activities.
- Chapter 2.0 provides a brief description of existing site facilities related to the SCM and LMS activities.
- Chapter 3.0 discusses areas where integration is required between SCM and LMS activities, and with other activities at the site.
- Chapter 4.0 provides the Scope of Work for Preliminary and Transitional activities.

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- Chapters 5.0 and 6.0 provide the SCM and LMS Schedules of Work, respectively.
- Chapter 7.0 discusses the Preliminary and Proposed Schedule and Proposed Budget for Work Defendants Proposed Scope of Work.
- Chapter 8.0 describes deliverables which are required and prioritized to be followed for their review.
- Chapter 9.0 discusses the schedule for initiation.

4. The objectives stated in this chapter indicate that a primary goal of the program shall be to "minimize" certain undesirable factors (e.g., minimize the uncontrolled release of landfill gas) and to "maintain" certain desirable conditions (e.g., maintain flare station efficiency) at the site. The terms minimum and maximum are used in the context of the existing site conditions and in the context of practical and feasible actions which can be undertaken as part of the focused SCM and LMS functions.

5. For activities set forth in this Scope of Work, the EPA Superfund Remedial Design and Remedial Action Guidance Document (OSWER Directive 9355.0-1A, dated June 1986), shall be followed as appropriate.

1.2 INTENT

1. It is the Work Defendants' intent that in addition to control, maintenance and monitoring the SCM and LMS activities include certain upgrades which they believe will accelerate important environmental improvements for the site. These are identified in Table 5.2.

2. The EPA generally agrees with the Work Defendants that there are benefits which may be gained by accomplishing the proposed improvements as early as possible. However, the EPA cannot initially commit to approve specific improvements until: (1) appropriate justification studies have been completed, and (2) there is assurance that basic SCM and LMS activities during the initial five year period will be adequately accomplished with remaining Work. Escrow Account funds pursuant to Paragraph C of Section IX (Work to be Performed) and Section X (Escrow Account) of the Decree.

3. In order to reflect the Work Defendants' intent and to allow improvement decisions to be made, it is agreed that Project Proposals (Subchapter 8.2) for proposed improvements shall be submitted as early as possible after the effective date. These Project Proposals will include cost-benefit data to allow the EPA and the Work Defendants to establish priorities and

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schedules for completing all or a portion of the improvement activities. The actual work for each year will be determined as part of each annual SCW/LMS Master Plan revision (Subchapter 8.2)

1.1 SCM OBJECTIVES

This section summarizes objectives for each SCM activity. The topics are discussed in the following sequence:

- Control
- Maintenance
- Monitoring
- Improvements

2. The ROD for SCM (Appendix B) states that Applicable or Relevant and Appropriate Requirements (ARARs) identified are not currently being met, and one objective of the SCM activities, including improvements, is to approach or achieve these ARARs. The final remedy is intended to achieve these ARARs.

1.1.1 CONTROL

1. Site control activities shall have the following functional objectives:

- **Gas Control:** Minimize the uncontrolled release of landfill gas from the site, and operate gas control systems to prevent or minimize undesirable ground fires, to the extent possible given the existing or improved conditions. This shall be accomplished by establishing goals and taking appropriate actions to:
 - Minimize surface gas emissions from the surface of the landfill.
 - Minimize off-site gas migration through subsurface soil.
 - Minimize flare system destructive removal efficiency.
 - Minimize subsurface fires.
- **Surface/Erosion Control:** Provide effective surface water drainage on the OJ site, so that infiltration and erosion are controlled and minimized. This shall be accomplished by establishing goals and taking appropriate actions to:
 - Minimize surface water infiltration.
 - Minimize soil/vegetation transport off-site.
 - Minimize erosion.
 - Promptly repair erosion consequences.
- **Landscaping/Utilization:** Bridge and maintain existing or improved site vegetation to minimize sheet erosion to the extent possible.

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- **Access Roads:** Provide all weather access to critical parts of the site, maintain critical flow lines and grading plans, and maintain other site roads, as appropriate.
- **Fencing:** Maintain a perimeter and interior fence which discourages unauthorized access to the site and facilities.
- **Support Facilities and Utilities:** Provide support facilities and utilities to fulfill the control, maintenance and monitoring activities.

1.3.2 SCM WASTES

1. SCM wastes generated shall be managed pursuant to Section IX (Work to be Performed) in the Decree.

1.3.3 MAINTENANCE

1. Site features, including appearances, systems, support facilities, and related necessary off-site systems, facilities, or equipment shall be maintained to the extent required to fulfill the control objectives specified in Subchapter 1.3.1.

1.3.4 MONITORING

1. Monitoring of site features, including appearances, systems, support facilities, and related necessary off-site systems, facilities, or equipment shall be conducted as required to fulfill the control objectives specified in Subchapter 1.3.1. Also, monitoring of meteorological and geotechnical instruments shall be conducted as necessary to assist in decisions regarding maintenance actions and the design of improvements and to increase overall knowledge of site conditions. Additional monitoring procedures or equipment may become necessary during the course of the SCM activities. Activities may include monitoring of control parameters or system parameters, inspections of site conditions, and auditing of the SCM activities.

1.3.5 IMPROVEMENTS

1. Improvements are included within the overall scope of the SCM. Decisions regarding potential improvements shall be evaluated based on how well the improvement satisfies the following objectives:

- Enhance level of site control and/or monitoring
- Expand control for a wider range of conditions.
- Correct control deficiencies.

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- Preclude control failures and site deterioration
- Minimize human health hazards
- Provide an acceptable level of control at a reduced cost
- Approach or achieve compliance with Federal, State, or local regulations, requirements, or formal policies
- Enhance the technical understanding of site conditions
- Avoid unnecessary conflicts with probable final remedy components

Because this Decree includes funding limitations pursuant to Section LX (Work to be Performed) of the Decree as described in Subchapter 1.2, specific improvements shall be approved only when it is determined that the cost of that improvement would not eliminate funds required for basic SCM and LMS activities. Subchapter 8.2 describes the information required when an improvement is proposed.

- The program includes annual updates to the SCMLMS Master Plan and Operations Manual to reflect existing conditions and the actual work progress. Priorities for improvements shall be reevaluated each year and final decisions shall be made regarding improvement planning for the coming year, as part of the SCMLMS Master Plan approval process.
- It is anticipated that the majority of the Work Defendants' recommended improvements will be implemented during the first 3 years. This would allow the improvements to be completed as early as possible, but still allows for annual decisions to be made consistent with the available funds and the monitoring and maintenance history.

1.4 LEACHATE MANAGEMENT SYSTEM (LMS) OBJECTIVES

- This section summarizes objectives for each LMS activity. The topics are discussed in the following sequence:
 - Liquid Collection.
 - Interim Transport and Offsite Treatment and Disposal.
 - Pretreatment and Transport Piping.
 - Influent Storage and Liquid Treatment.
 - Effluent Storage and Transport.
 - Maintenance and Monitoring.
 - Improvements.

1.4.1 LIQUID COLLECTION

- Liquid control will minimize migration of leachate from the site to the extent possible with existing leachate management systems. This shall be accomplished by:
 - Minimizing production of leachate.
 - Minimizing leachate migration offsite.

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- Maximizing leachate collection system efficiency
- Preventing onsite and offsite leachate seeps
- Preventing onsite and offsite contaminated liquid spills

Other liquid streams (e.g., condensate, decontamination waters) will be minimized without adversely affecting control objectives

1.4.2 INTERIM TRANSPORT AND OFFSITE TREATMENT AND DISPOSAL

- Prior to operation of the onsite treatment plant, collected liquids shall be transported to an appropriate, EPA approved, offsite treatment facility. This shall be accomplished by:
 - Providing adequate, temporary, onsite storage
 - Providing appropriate trucks to transport the liquid in the manner which minimizes the potential for spills
 - Contracting with an approved TSD facility

1.4.3 PRETREATMENT AND TRANSPORT PIPING

- Liquids shall be prepared, combined, and transported from the point of origin to the treatment plant storage in the manner which minimizes the overall treatment requirements. This shall be accomplished by:
 - Avoiding the mixture of streams which can impair treatment
 - The annual removal of constituents by pretreatment, if appropriate for maintaining treatment plant efficiency
 - Minimizing the potential for uncontrolled transport of liquids to the Leachate Treatment System (LTS) which could upset the system

1.4.4 INFLUENT STORAGE AND LIQUID TREATMENT

- Combine and equalize flows and operate the treatment plant so that the amount of liquids from the site are adequately treated, at the lowest cost

1.4.5 EFFLUENT STORAGE AND TRANSPORT

- Provide sufficient storage to permit appropriate analyses to be performed prior to discharge to the Publicly Owned Treatment Works (POTW) and/or irrigation system

1.4.6 OTHER LMS WASTES

- Other LMS wastes generated will be managed pursuant to Section LX (Work to be Performed) of the Decree.

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1.4.7 MAINTENANCE AND MONITORING

1. Site features, including apparatuses, systems, support facilities, and related necessary office systems, facilities, or equipment shall be maintained to the extent required to fulfill the control objectives specified in Subchapters 1.4.1 through 1.4.5.

2. Monitoring of site features, including apparatuses, systems, support facilities, and related necessary office systems, facilities, or equipment shall be conducted as required to fulfill the control objectives specified in Subchapters 1.4.1 through 1.4.5. Also, monitoring of meteorological and geomechanical instruments will be conducted, as necessary, to assist in decisions regarding maintenance actions and the design of improvements and to increase overall knowledge of site conditions. Additional monitoring procedures or equipment may become necessary during the course of the LMS activities. Activities may include monitoring of control parameters or system parameters, and inspections of site conditions.

1.4.8 IMPROVEMENTS

1. LMS improvements shall be evaluated and accomplished pursuant to Subchapter 1.3.5 (SCM Improvements).

1.5 HEALTH AND SAFETY OBJECTIVES

1. All site activities shall be developed, planned, and implemented in a manner which is consistent with applicable occupational and public health and safety requirements, as specified in Section XI (Worker Health and Safety Plan) of the Decree, and Chapter 4.0.

1.6 QUALITY OBJECTIVES

1. All site activities shall be developed, planned, and implemented in a manner which provides data of adequate and appropriate quality concerning system operation or site characteristics, as specified in Section XII (Quality Assurance/Quality Control) of the Decree, and Chapter 4.0.

1.7 MANAGEMENT INFORMATION SYSTEM (MIS)

1. In the development and selection of the MIS and associated software, preference shall be given to systems which can be readily transferred to EPA.

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2.0 BACKGROUND

2.1 SITE HISTORY

2.1.1 LOCATION

1. The OD Site is located at 900 Puente Grande Drive in the City of Monterey Park, Los Angeles County, California. The Site encompasses approximately 190 acres, with the Pomona Freeway dividing the Site into a 45 acre northern parcel and a 145 acre southern parcel. The majority of the onsite systems and facilities are located on the southern parcel.

2.2 SYSTEM DESCRIPTION

1. The description of existing site systems is provided in Exhibit I of this Scope of Work. The following systems and facilities are discussed:

1.1 Active Control Systems

1.1.1 Gas Management

- 1.1.1.1 Interior Gas Extraction System
- 1.1.1.2 Refractor Gas Extraction System
- 1.1.1.3 Air Dike System

1.2 Leachate Collection Systems

- 1.2.1 Area I Collection
- 1.2.2 Area II Collection
- 1.2.3 Area III Collection
- 1.2.4 Area IV Collection
- 1.2.5 Area V Collection
- 1.2.6 Onsite Storage

1.3 Landscaping/Irrigation

- 1.3.1 OIL System
- 1.3.2 Toe Business and Northwest Slope System

1.4 Passive Control Systems

- 1.4.1 Stormwater/Erosion Control
- 1.4.2 Site Access and Security
 - 1.4.2.1 Access Roads
 - 1.4.2.2 Perimeter Fencing
 - 1.4.2.3 Gate Security Office
 - 1.4.2.4 Security Lighting
 - 1.4.2.5 Utilities and Support Facilities
 - 1.4.2.6 Entrance Gate

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- 1.5 Monitoring
 - 1.5.1 Probes
 - 1.5.2 Wells
 - 1.5.3 Water Meter Boxes
 - 1.5.4 Meteorological Station
 - 1.5.5 Geotechnical Instrumentation

3.1 INTRODUCTION

1. This chapter describes how certain Work, Defendant and EPA activities at the site shall be coordinated. These activities include:
 - Leachate management and treatment plant design
 - Site control and monitoring
 - Landfill gas control, including the gas control operable unit
 - Remedial investigations
 - Feasibility studies
 - Emergency response activities

2. Communication between the organizations performing or approving the above activities is critical to integration of the various activities discussed below. The following subchapters describe the activities, the organizations, and the structure for communication

3.2 SITE ACTIVITIES REQUIRING INTEGRATION

1. Examples of activities potentially requiring integration include:
 - SCM activities which could modify the liquid quantities or qualities (e.g., equipment washdown water, modifications to piping system), or storage which will have a direct and immediate impact on the LMS. Conversely, quality or quantity limitations of the LMS may place constraints on site activities.
 - Hydrogeologic drilling and testing activities can generate waters which may require treatment. Temporary storage may be required to determine if treatment of those liquids is required, and if so, procedures for blending the fluids into the treatment system flow will have to be determined by the plant operations. Periods of blending may require the temporary reduction of leachate collection or hydrogeologic testing activities.
 - Relevant data and experience gained from the SCM and LMS operation must be integrated into the final feasibility study for the site.
 - Activities associated with landfill gas control activities will continue to generate condensate which should be incorporated into the LMS influent stream. Therefore, any significant changes in the gas collection program must be coordinated with the design and operation of the LMS and appropriate SCM activities.
 - To the maximum extent feasible, existing flare stations may be used to incinerate LMS off-gas.
 - The use of treatment plant effluent for the irrigation system.
 - Irrigation activities currently conducted by Operating Industries, Inc.

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3.1 COMMUNICATION AND COORDINATION PROCEDURES

- 1 As described in the Decree, the Work Defendants, EPA, and DHS shall each designate a Project Coordinator as the focal point for formal communications. In addition, the following communications procedures shall be used to assure integration of site activities:
 - Periodic technical exchange meetings
 - Mutual review process for proposed activity changes
 - Notification procedures for any onsite activities or events, including spills or upsets, which may affect the Work.
- 2 Periodic technical exchange meetings shall be conducted between Work Defendants and EPA (and others, as appropriate,) working at the site. Discussion topics may include their current activities and forthcoming plans regarding activities that could have impacts on other entities performing work at the site.
- 3 To assist in the approval of project deliverables and to assure integration of site activities, the periodic technical exchange meetings shall be a forum allowing the participants to present status reports and interim conclusions and to receive comments, thus building a technical consensus early on. This may include exchange of data and reports.
- 4 The periodic technical exchange meeting participants shall agree on notification procedures for upsets or short term instances which may have an effect on each other's activities. As appropriate, these procedures shall be integrated with overall site emergency procedures.
- 5 Sometimes it shall be necessary to include other organizations, including state or local agencies, in a technical exchange meeting. Invitations to attend shall be coordinated through the Project Coordinators.
- 6 Pursuant to the applicable health and safety plans, tours of the site by interested agency, industrial, or public groups shall be arranged through the Project Coordinators.

4.0 SCOPE OF WORK FOR PRETRANSITION AND TRANSITION ACTIVITIES

- 1 This chapter presents the Scope of Work for the following activities which are common to both the SCM and LMS programs:
 - Task T.1 - Transition Plan
 - Task T.2 - Interim Budget and Operations Plan
 - Task T.3 - Safety, Health and Emergency Response Plan
 - Task T.4 - Quality Assurance/Quality Control (QA/QC) Plan
 - Task T.5 - Transition Activities
 - Task T.6 - Project Proposal Plan
 - Task T.7 - SCM/LMS Master Plan
 - Task T.8 - Operations Manual
- 2 The Transition Plan must be approved before the transition period begins. Tasks T.2 to T.4 must be completed before the Work Defendants assume field responsibilities. Tasks T.6 to T.8 shall be completed according to the schedule set forth in Chapter 9.0.
- 3 The preliminary and detailed budget estimates shall be developed on the basis of standard engineering cost estimating practices. For the purposes of this Scope of Work, the preliminary and detailed budget estimates shall have goals of ± 25 and ± 15 percent, respectively, of actual costs.
- 4 **Task T.1 - Transition Plan** - This plan shall specify the procedures and required activities for the Work Defendants to begin formal field transition activities with EPA. The plan shall include at least the following elements:
 - Onsite Facilities Plan, including locations, utility hook-ups and procedures for integrating with existing facilities.
 - Personnel and facilities mobilization logistics and schedule.
 - Training of the Work Defendants' contractor by the EPA contractor as needed for the transition.
 - Staffing approach and breakdown by discipline and organizational responsibility matrix.
 - Reduced personnel plan for a period exceeding 8 weeks, if appropriate.During the transition period, the EPA's Contractor shall maintain responsibility for field activities. Work Defendants shall comply with applicable existing health and safety plans.

Task I.2. Injection Budget and Operations Plan - This plan shall be used for both SCAT and LMS activities under the SCW/LMS Master Plan and Operations Manual are approved. The plan shall include at least the following elements:

- A statement of the control, maintenance and monitoring activities to be undertaken at the site, including schedules for each.
- Specific reference to portions of the EPA Operations Manual (citing at that time) which will be used
- An interim Monthly Progress Report format
- Subcontractor Transition Plan, including procedures for offsite hauling and recycling of leachate
- Management Information Systems (MIS) description and demonstration schedule
- An implementation procedure for implementing the MIS program
- A budget for a 6 month period, including a reasonable contingency for unknown maintenance or repair activities.
- An Incident Report format.
- Communication procedures for routine and emergency issues which arise after the transition period.

6. Task I.3. Safety, Health and Emergency Response Plan - This plan shall guide health, safety and emergency response procedures for all activities to be conducted by the Work Defendants. As required to suit specific activities, addenda to the general plan shall be provided. The plan shall be developed pursuant to Section XI (Worker Health and Safety Plan) of the Decree. The general plan shall include at least the following basic elements:

- Identification and Purpose.
- Applicable Laws and Regulations.
- Organizational and Coordination.
- Medical Surveillance Program.
- Chemicals of Concern.
- Activities Hazard Analysis.
- Site Control, Work Zones, and Security Measures.
- General Safe Work Practices.
- Training.
- Personnel Protective Equipment.
- Outside Work Plans.
- Standard Operating Safety Procedures.
- Communication Procedures.
- Monitoring Plan (Personnel and Environmental).
- Decontamination Procedures.
- Community Safety.
- Emergency Response Plan, including:
 - A Contingency Plan.
 - Identification and responsibilities of an Emergency Coordinator.
 - Procedures for updating and distributing the Plan.
- Record Keeping.
- Requirements for Subcontractor and Special Activity Plans.

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EPA's comment on and approval of this Plan shall not constitute EPA's approval of the Plan and Safety Protocols and other health and safety purposes of this Plan.

7. Task I.4. Quality Assurance/Quality Control (QA/QC) Plan - This plan will guide quality procedures for all activities to be conducted by the Work Defendants. Addenda to the general QA/QC Plan and specific sampling plans shall be prepared as required for specific activities, such as for the LMS activities and shall be developed pursuant to Section XII (Quality Assurance/Quality Control) of the Decree. The Plan shall include at least the following basic elements:

- Project organization and qualifications of staff
- Sampling and sample custody procedures, including the sample size selection rationale.
- Analytical methods/procedures
- Analytical/analytical/control procedures, including requirements for accuracy, sensitivity, precision, sample quantities, calibration procedures, preventive maintenance, internal quality control checks, representative samples and data comparability.
- Data handling, analysis and reporting
- Special testing
- Alternative test procedures.
- Data validation procedures.
- Requirements for subcontractor and special activity plans.

8. Task I.5. Transition Activities - The procedures and activities during the transition period shall occur in accordance with the Transition Plan.

9. Task I.6. Project Progress Plan - This plan shall be prepared to determine, as early as possible, the schedule for preparing Project Proposals for improvements which may be implemented. Certain of the proposals shall be required as input to the SCW/LMS Master Plan. To facilitate scheduling and budgeting in the Master Plan, the potential improvements shall be subdivided into the following three categories:

- Category I - Improvements which have the potential to significantly affect decisions regarding first year activities, and therefore which should be decided upon before the SCW/LMS Master Plan is finalized.
- Category II - Improvements which could have importance to the configuration of a Category I item. The Project Proposal for Category II items should be completed prior to finalization of the Master Plan so that

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alternative configurations are identified. Final decision regarding implementation of Category II items is not required prior to finalization of the Master Plan.

- Category III - Improvements which can be identified as being potentially important, but which do not appear to have significant impact on the first year's SCM/LMS activities.

The Project Proposal Plan shall include at least the following elements:

- Identification of and description of potential improvements being considered, and an initial list of alternatives being considered for each.
- An evaluation of the importance of each potential improvement for the first year's SCM/LMS activities and to each of the other potential improvements.
- Conceptual schedules and budgets ($\pm 40\%$) for completing the range of alternatives under consideration for each potential improvement.
- Assignment of each potential improvement to Category I, II and III status.
- A detailed schedule and cost estimate for completing Project Proposals for each Category I and II item, and preliminary schedules and cost estimates for completing each Category III item.

10. **Task T.7 - SCM/LMS Master Plan** - This Master Plan shall be the main document for controlling and guiding SCM and LMS activities for implementation of this Decree by the Work Defendants. It shall state the basic SCM and LMS activities which must be accomplished and shall include a procedure to prioritize proposed improvements. The Master Plan shall be detailed for the upcoming year's activities and preliminary for later years. Subchapter 8.2 discusses procedures to formally revise the Master Plan annually so that each year's detailed planning reflects the most current site conditions. The Master Plan shall include at least the following elements:

- A statement of the intent and objectives of the SCM and LMS activities.
- Detailed schedule and description of necessary and potential SCM and LMS activities for the upcoming year period.
- Preliminary schedule for the remaining years of control, maintenance, monitoring and improvement activities.
- General descriptions and priority designations for potential improvements in the preliminary schedule and discussion of their possible budget implications.
- Preliminary budget and cash flow projections for all items on the preliminary schedule.
- Detailed budget for necessary and potential upcoming year activities. The budget shall include detailed summaries of labor, equipment, material and

subcontractor requirements for each activity, an estimate of their anticipated costs, and an estimate of contingencies for unanticipated conditions.

- The schedule for completing all or portions of potential improvement designs during the upcoming year, in order to provide engineering estimates and schedules needed for establishing priorities.

11. **Task T.8 - Operations Manual** - The Operations Manual shall be prepared in coordination with the Master Plan to assure compatibility between the plans and day-to-day field activities. However, the Operations Manual shall be a complete, "stand alone" document to provide controls and guidance for the various site activities. The Operations Manual shall include the following items:

- Description of SCM related systems
- Operational procedures
- Operational emergency response
- Maintenance procedures
- Maintenance schedules
- Monitoring procedures
- Monitoring schedules
- Strategies for special activities (such as erosion control on steep slopes)
- Program interaction/integration requirements
- Parts and equipment inventory
- Appendices with:
 - Approval procedures for budgetary variance and improvement prioritization
 - Sampling Plans for each of the monitoring activities
 - Incident report format
 - Improvement and change order prioritization and approval procedures
 - Subcontractor and vendor control procedures
 - MIS User's Manual
 - Monthly report format (see Subchapter 8.3.1).

During LTS design (Subchapter 6.4.2), an Operations and Startup Section specifically for that facility shall be developed. The Section shall be prepared to fit directly into the SCM/LMS Operations Manual.

12. The Appendix to the Operations Manual which describes the approval procedure for budgetary modifications shall consist of a management plan, which shall include at least the following elements:

- Definition of Work Breakdown Structure with tiered levels of responsibility, and work element budgets and milestones.
- Definition of the level of budgetary authority. The authority of approval on budgetary increases which shall be established in this Appendix, shall

reflect the degree of management required. For example, the Work Defendants Project Coordinator could approve variances within his/her level of authority without seeking an approval from a higher level.

- Definition of the procedure to report and request approval for potential variances beyond the approved level of authority.
 - Budget variance approval request procedures which at the minimum shall include:
 - Nature and extent of the potential variance.
 - Potential impacts on overall goals of the Scope of Work.
 - Alternatives for mitigation of the variance.
 - Recommended action, including requested approval of variance, if appropriate.
 - Specifications of the magnitude of variances to be reported in the monthly report and a definition of the reporting format.
- 11) Each Sampling Plan appendix shall include at least the following items:
- Sampling rationale and description of techniques used in selecting sampling sites (e.g., random, stratified).
 - Specific sampling, preservation, and preparation procedures used, extraction methods, analytical references or descriptions (including sample size, types of sample containers, applicable sampler, etc.). For nonstandard or modified sampling methods, detailed procedures with appropriate references are required.
 - Sampling program organization, if needed.
 - Description of sample container and sampler cleaning procedures for each type of container to be used following EPA guidelines or other appropriate procedures.
 - Procedures to avoid sample contamination.
 - Sample preservation methods and holding times, following EPA SW-846 guidelines or other appropriate references.
 - Sample transportation requirements (following EPA and Department of Transportation guidelines, as applicable).
 - Chain-of-Custody procedures, following EPA SW-846 guidelines or other appropriate references.
 - Procedures and responsibility for data validation, as appropriate.

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5.0 SCOPE OF WORK

5.1 INTRODUCTION

1. The Site Control and Monitoring (SCM) Program consists of the following tasks:
 - Task S.1 - Gas Management
 - Task S.2 - Stormwater/Erosion Control
 - Task S.3 - Landscaping/Irrigation
 - Task S.4 - Access Roads
 - Task S.5 - Fencing
 - Task S.6 - General Facilities and Utilities

Discussions in this section for each of these activities include the following items, as appropriate:

- Components
- Operational Objectives
- Maintenance Objectives
- Monitoring Objectives
- Improvement Objectives

2. Specific monitoring activities are not discussed separately for each task because they will change over time. The monitoring requirements shall be detailed in the Operations Manual (Chapter 4.0). In order to illustrate the level of monitoring required, however, Table 5.1 provides an approximate summary of the monitoring activities currently being implemented. Also, the following list illustrates the approximate types and numbers of components currently being monitored:

- Observations of general field conditions
- Operating performance of site mechanical systems
- Perimeter gas probes at 55 locations
- Air duct probes at 34 locations
- Offsite gas probes at 27 locations
- Offsite meter boxes at about 100 locations
- North Parcel gas probes at 15 locations
- South Parcel landfill gas monitoring probes at 15 locations
- North Parcel landfill gas monitoring probes at 13 locations
- The meteorological station
- Geotechnical instrumentation including piezometers, inclinometers and surface monuments
- Improvements to the monitoring system

3. Also, improvements are not discussed with each task, because they are considered to be potential activities. Instead, Table 5.2 illustrates the type and proposed schedule of improvements considered to be appropriate by the Work Defendants.

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TABLE 1.1
PRELIMINARY LIST OF
SCM MONITORING ACTIVITIES¹

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TABLE 5.1
SUMMARY OF POTENTIAL SCM IMPROVEMENTS

ACTIVITY	POTENTIAL IMPROVEMENTS	
	ITEM	
I. Gas Control	• Replace or Convert Air Dike System to Perimeter Migration Control and Monitoring System	1
	• Install Foul Cover at Bottom of South and West Slopes	1
	• Expand and Improve Perimeter Migration Control and Monitoring System on South and West Boundaries	1
	• Deep and Shallow Slope Walls at Areas with Foul Cover on South and West Slopes	1
	• Provide Condensate Collection System	1
II. Steamwater/Erosion Control	• Gas Header and Knockout System as Required	1
	• Upgrade Earning Flares	1
	• Install New Temporary Down Drains for Deck and Benches	1
	• Install Deck Soil Rooms to direct Flow to New Temporary Down Drains and Modify Existing Down Drain Systems (as is practicable);	1
	• Install Temporary Inlets at Existing Benches onto New Down Drain System	1
III. Landscaping/Irrigation	• Freshen Decks for Foul Soil Cover Areas	1
	• Seed and Mutch Areas Requiring Vegetation	1
	• Seed and Mutch Areas with Foul Cover	3
	• Install Irrigation System on Foul Cover Areas	1
IV. Access Roads	• A/C Pavedment for Main Access Road	1
	• Macadam for Loop Road on West Portion	1
	• Improve Slopes and Provide Gravel for Beach Roads	1
V. Fencing	• Cleaned Under Control and Maintenance, as present	1
VI. General Facilities and Utilities	• Temporary Offices, Laboratory and Change Facility	1
	• Management Information System	1
	• Telephone/Communication System	1
	• Health and Safety, and Monitoring Equipment	1

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2 Operational Objectives:

- Maintain existing and improved onsite vegetation in a condition which effectively controls erosion, especially on the steeper slopes. New vegetation selection should consider irrigation requirements, root depth, fire potential and other factors which could affect performance and maintenance requirements.
- Avoid over irrigation which could result in unnecessary infiltration into the landfill.

3 Maintenance: Provide labor, equipment, materials, technical expertise, and supervision necessary to achieve the operational objectives.

4 Monitoring: Table 5.1 indicates preliminary SCM monitoring activities related to landscaping/irrigation. Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan and the Operations Manual.

5 Improvements: Table 5.2 indicates potential improvements to include seeding and mulching of existing areas requiring vegetation and areas of new cover. Subchapter 8.2 discusses the procedure to evaluate each potential improvement and to obtain approval from EPA.

5.5 TASK 5.4 - ACCESS ROADS

1 Components Include:

- The main access road from the entrance on the North Parcel to the auxiliary flare station.
- The loop road from the end of the access road, across the landfill deck and around the west toe of the landfill, back to the access road.
- Beach roadways which provide access around the South Parcel landfill, at several levels.

2 Operational Objectives:

- Provide access to critical areas on the site under all weather conditions.
- Maintain other access roads, as appropriate.
- Minimize the amount of mud carried into activity areas and offsite by vehicles during rainy period.
- Avoid hazards in areas requiring vehicle travel.

3 Maintenance: Provide labor, equipment, materials, technical expertise, and supervision necessary to achieve the operational objectives.

5.2 TASK 5.1 - GAS MANAGEMENT

1 Components Include

- Interior gas extraction system wells, surface collectors, conveyance components and flare station.
- Perimeter gas extraction system wells, conveyance components, main flare station, and auxiliary flare station.
- Perimeter air dike system, compressor station, wells, conveyance components and probes.
- Landfill cover as it relates to emissions.
- Gas-related improvements.

2 Operational Objectives:

- Minimize surface emissions and subsurface gas migrations to the extent practicable with those systems which are in place or improved.
- Mitigate emissions from surface cracks, where practicable, by applying cover material, by monitoring, or by other approved means, to assure emission levels do not increase exposure risks in public or worker exposure areas.
- Operate each flare station above 1400°F or as otherwise approved.
- Mitigate subsurface fires to the extent possible.

3 Maintenance: Provide labor, equipment, materials, technical expertise and supervision necessary to achieve the operational objectives and requirements, considering the components available and the budgeted scope of activities for each year.

4 Monitoring: Table 5.1 indicates preliminary SCM monitoring activities related to specific gas control components. Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan and the Operations Manual.

5 Improvements: Table 5.2 summarizes improvements which potentially should improve the Gas Management System, especially in the areas of greatest potential for public exposure. Subchapter 8.2 discusses the procedure which shall be used to evaluate each potential improvement and to obtain approval from EPA.

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5.3 TASK 5.2 - STORMWATER/EROSION CONTROL

1. Components include:

- Down drains and inlet structures.
- Beach gutters and inlets.
- Road gutters.
- Top of landfill channels to storm drains or flood control drains.
- Landfill cover as it is affected by erosion.
- Drainage and erosion control improvements.

2. Operational Objectives:

- Manage subsidence, cracking or ponding to the extent practicable.
- Manage areas of significant erosion as soon as possible after discovery.
- Take steps to minimize erosion from storm events, whenever possible (e.g., improve and maintain site grading).
- Maintain the integrity of onsite facilities and systems as a result of erosion and runoff effects.
- Maintain site grading.

3. Maintenance: To provide labor, equipment, materials and supervision necessary to achieve the operational objectives, to the extent practical with the existing site conditions.

4. Monitoring: Table 5.1 indicates preliminary SCM monitoring activities related to stormwater/erosion control. Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan and the Operations Manual.

5. Improvements: Table 5.2 summarizes improvements proposed by the Work Defendants which are intended to: (1) improve stormwater management, (2) decrease the potential for erosion and ponding from all types of storms, and (3) decrease the potential for major erosion failures. Subchapter 8.2 discusses the procedures which shall be used to evaluate each potential improvement and to obtain approval from EPA.

5.4 TASK 5.3 - LANDSCAPING/IRRIGATION

1. Components include:

- The irrigation water pump.
- The sea borewell system.
- The NW slope system.
- The OII irrigation system, presently being operated by Operating Industries, Inc. personnel.
- Landscaping/irrigation related improvements.

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2. Operational Objectives:

- Maintain existing and improved onsite vegetation in a condition which effectively controls erosion, especially on the steeper slopes. New vegetation selection should consider irrigation requirements, root depth, fire potential and other factors which could affect performance and maintenance requirements.
- Avoid over irrigation which could result in unnecessary infiltration into the landfill.

3. Maintenance: Provide labor, equipment, materials, technical expertise, and supervision necessary to achieve the operational objectives.

4. Monitoring: Table 5.1 indicates preliminary SCM monitoring activities related to landscaping/irrigation. Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan and the Operations Manual.

5. Improvements: Table 5.2 indicates potential improvements to include seeding and mulching of existing areas requiring vegetation and areas of new cover. Subchapter 8.2 discusses the procedure to evaluate each potential improvement and to obtain approval from EPA.

5.5 TASK 5.4 - ACCESS ROADS

1. Components include:

- The main access road from the entrance on the North Parcel to the auxiliary flare station.
- The loop road from the end of the access road, across the landfill deck and around the west toe of the landfill, back to the access road.
- Bench roadways which provide access around the South Parcel landfill, at several levels.

2. Operational Objectives:

- Provide access to critical areas on the site under all weather conditions.
- Maintain other access roads, as appropriate.
- Minimize the amount of mud carried into activity areas and offsite by vehicles during rainy period.
- Avoid hazards in areas requiring vehicle travel.

3. Maintenance: Provide labor, equipment, materials, technical expertise, and supervision necessary to achieve the operational objectives.

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4. **Monitoring:** Monitoring of the access roads (Table 5.1) currently consists of weekly visual observation of conditions to determine if repairs are required. Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan in the Operations Manual.

5. **Improvements:** Table 5.2 summarizes improvements proposed by the Work Defendants to satisfy the indicated operational objectives.

5.6 TASK 5.5 - FENCING

1. **Components include:**

- The perimeter fence, including gates at several locations.
- Interior fencing at the trailer compound, flare stations, and meteorological station.
- The entrance gate.
- Fencing related improvements, if any.

2. **Operational Objectives:** Coordinate with EPA and its security contractor to discourage unauthorized entry.

3. **Maintenance:** Provide labor, equipment, materials, technical expertise, and supervision necessary to achieve the operational objectives.

4. **Monitoring:** Monitoring of the fences (Table 5.1) currently consists of weekly visual observation for damage which requires repair. Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan and the Operations Manual.

5. **Improvements:** No major fence improvements are planned at the present time (Table 5.2).

5.7 TASK 5.6 - GENERAL FACILITIES AND UTILITIES

1. **Components include:**

- Office and laboratory trailers.
- Utilities.
- Health and safety and monitoring equipment.
- Onsite communications system.
- MUIS system.
- Documentation facilities.

2. **Operational Objectives:**

- Provide support for the staff and equipment required to accomplish the SCM activities on a routine basis.
- Provide support to respond to unanticipated events and emergencies.
- Provide procedures for maintaining and reporting accurately the SCM activity and monitoring results.

3. **Maintenance:** Provide labor, equipment, materials, technical expertise, and supervision necessary to achieve the operational objectives.

4. **Monitoring:** Currently consists of weekly visual observations (Table 5.1) of general conditions and a monthly detailed check of emergency response capabilities. Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan in the Operations Manual.

6.0 LMS SCOPE OF WORK

6.1 INTRODUCTION

1 This chapter presents the Scope of Work for the Leachate Management System (LMS) in the following sections:

- Task L.1 - Leachate Control, Maintenance, Monitoring and Improvements
- Task L.2 - Offsite Transport and Treatment
- Task L.3 - Leachate Treatment System (LTS) Design, Construction, Startup and Operation
 - Task L.3a - Preliminary Activities
 - Task L.3b - Plant and Facilities Design Activities
 - Task L.3c - Procurement and Construction
 - Task L.3d - Startup
 - Task L.3e - Operations
 - Task L.3f - Final Construction Report

2 The overall LMS areas of responsibility include:

- Management, maintenance, monitoring and improvements to the leachate extraction and conveyance systems.
- Management, maintenance, monitoring and improvements for storage facilities associated with gas condensate, decontamination washdown and waters produced by RLFS activities.
- Offsite transport and treatment of liquids which cannot be treated onsite.
- Design, construction, maintenance, monitoring and improvements to collection transport and storage systems for liquids to be treated.
- Design, construction, startup, operation, maintenance, monitoring and improvements to the onsite LTS for treating and efficient disposal of onsite generated liquids.

6.2 TASK L.1 - LEACHATE CONTROL, MAINTENANCE, MONITORING AND IMPROVEMENTS

1. Components include:

- Area I collection system, including shallow trench drains to control seepage, 36-inch diameter riser/well and one deep monitoring well.
- Area II collection system, including extraction wells, conveyance system to Area III and several inactive riser/well.

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- Area III collection system consisting of a shallow trench drain system, buried steel tanks, a gravel collection zone, an off-landfill trench drain and leachate collection sump system, and pumping and conveyance system to the above ground tanks in Area IV.
- Area IV collection system which includes shallow gravel trenches, an unlined sump, and a pumping and conveyance system to above ground storage tanks, also located in this area.
- Area V collection system which consists of shallow gravel trenches, and leachate disposal barge.
- The ice business collection tanks.
- The onsite storage in Area IV, which consists of leased portable above ground storage tanks in protected berms.
- The condensate collection tank at the interior gas system flare station.
- The storage tank for potentially contaminated water at the vehicle decontamination facility.

2. Operational Objectives:

- Transfer collected leachate and liquids to above ground storage tanks, pretreatment facilities or conveyance systems as necessary.
- Provide onsite storage suitable for the volume of liquids being handled until a new treatment plant system becomes available.
- Mitigate surface seepage offsite immediately upon discovery.
- Mitigate potential offsite subsurface seepage if possible with systems which are in place at the time.
- **Maintenance:** Provide labor, equipment, materials, technical expertise and supervision necessary to achieve the operational objectives.
- **Monitoring:** The following are approximate monitoring activities for the LMS program:
 - Volume of leachate and liquids generated by collection area, if possible.
 - Characteristics of liquids collected by area semi-annually.
 - Depth of liquid in extraction wells on a quarterly basis.
 - Evidence of leachate seepage as determined from routine observations of surface conditions.

Actual monitoring requirements shall be set forth in the Interim Budget and Operations Plan and the Operations Manual.

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5. **Improvements:** Currently, potential improvements are being accomplished in Areas III and IV to reduce or eliminate reliance on unlined tanks and underground storage tanks. Because they could significantly improve leachate control, the following additional potential improvements will be considered:
 - Installation of pumps into any new perimeter gas migration control wells with liquid
 - Installation of pumps into existing wells/boreholes and new deep slope wells.
 - Installation of conveyance, pretreatment and storage facilities for newly installed pump systems.
 - Expansion of existing trench drains, where appropriate.

Subchapters 1.3.5 and 8.2 discusses the procedures which shall be used to evaluate each potential improvement and to obtain approval from EPA.

6.1 TASK L.2 - OFFSITE TRANSPORT AND TREATMENT

1. Components include:

- Transfer of liquid from onsite storage tanks to an offsite, RCRA permitted TSD facility for:
 - All collected liquids prior to treatment plant construction.
 - Any collected liquids which cannot be adequately treated by the onsite treatment plant.
- Appropriate tank trucks for the types and volumes of liquids to be transported.

The RCRA-permitted TSD facility shall be approved in accordance with Subsection 121(d)(1) of CERCLA, as amended, and EPA's Revised Procedures for Implementing Off-site Response Actions (Off-site Policy) dated November 13, 1987 (EPA OSWEA Directive 9834.11).

2. **Operational Objectives:** Provide all services, equipment, vehicles and material required to safely transport and dispose of collected liquids from the site.

3. **Monitoring:** Examples of monitoring of offsite transportation include:

- Maintenance of inventories of pumped volumes from each collection point.
- Double maintenance of the related manifests.

4. **Interim Status:** No major improvements for this activity are planned at the present time.
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6.4 TASK L.3 - LITS DESIGN, CONSTRUCTION, STARTUP AND OPERATION

1. The LITS design, construction, startup and operations shall be conducted in a manner which is consistent with the Leachate Management ROD

6.4.1 TASK L.3a - PREDESIGN ACTIVITIES

1. The LITS pre-design activities shall result in a Pre-design Report to provide information, including the following

- Selected pretreatment, storage, equalization and main treatment processes
- Selected site configuration
- Selected pipeline routes.
- Final design workplan
- Efficiency and residuals handling requirements

2. The pre-design activities include the following major tasks, which are described in the following sections:

- **Task L.3a.1:** Identification of the range of liquid quantities and qualities which must be handled by the treatment facilities. These data are essential to determine: (1) influent storage and equalization requirements, (2) special pretreatment requirements for some or all liquid streams, (3) the most appropriate treatment system, including component sizes, (4) the range of conditions which must be handled without causing system upset, and (5) liquid collection system management to avoid conditions outside of the LITS facilities capacity
- **Task L.3a.2:** Identification of performance requirements for the liquid effluent, LAAS related air emissions, and sludge residues from the treatment process.
- **Task L.3a.3:** Initial screening of processes to determine the types and range of bench/pilot tests to be conducted.
- **Task L.3a.4:** Preparation of a Bench/Pilot Testing plan.
- **Task L.3a.5:** Conductation of the Bench/Pilot testability studies
- **Task L.3a.6:** Selection of the most appropriate process type, capacity and configuration to suit the anticipated quality and quantity of leachate, performance requirements, and physical site conditions.
- **Task L.3a.7:** Preparation of the Pre-design Report, which shall form the basis for proceeding with the actual LITS design.

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6.4.1.1 Task L.3a.1 - Quality and Quantity Characterizations

Liquid Quality for Treatability

1. Quality characterization of the liquid to be treated shall include:
 - The range of expected concentrations of constituents for estimated normal flow conditions
 - The range of concentrations of constituents which may cause process upsets
 - Special constituents of interest (e.g., a constituent which would meet each standard, but could have adverse effects on some vegetation if the effluent is used for irrigation).
2. These characteristics shall be determined by a combination of: (1) evaluation of the historical data base, (2) specific source analyses currently being gathered by the EPA, and (3) best estimates of the conditions that may result from other (e.g., SCM, RI/FS) activities. The evaluation of potential effects of different sources on equalization and/or segregation procedures shall include consideration of the extent to which each flow volume can be individually controlled for short and/or long term periods, if required to avoid an upset condition. For example, pumpage from one or several wells could be slowed or temporarily stopped if those wells were producing leachate requiring special handling.
3. Preliminary characterization of the quality of liquids which may be anticipated under full scale leachate removal activities shall also be incorporated. These estimates shall provide a basis for evaluating the potential incorporation of the LTS into the final remedy.

Liquid Quantity for Treatability

1. Liquid quantity estimates shall include consideration of:
 - Past and present trends.
 - Expected effects of related site activities, such as leachate extraction, gas remediation, geotextiles and washdown activities.
 - Hydrogeologic testing plans.
 - Efforts to reduce the potential for landfill liquids to enter ground water.
 - Other activities which may impact liquid volumes.

2. The estimates shall consider continuous flow sources and the potential for short term peaks to optimize the combination of storage, equalization, segregation and processing. Allow relationships between quantity and quality estimates shall be correlated to determine limiting conditions.

Equalization - Options and Limitations

1. The required influent storage and equalization system capacities and flexibility shall be determined from the quality and quantity data. The evaluation shall include consideration of:
 - Instrumentation and controls.
 - Sizes and interconnections between tanks.
 - Options for oil and grease or VOC removal from individual influent streams or after mixing.
 - Temporary extra storage for liquids requiring special handling.
 - Control of emulsification potential.
 - Emergency containment requirements.
 - Location with respect to collection, transport and treatment systems.
 - Possibilities for special treatment for certain streams.
2. If predictions indicate the potential for quality or quantity upsets, even with a conservative equalization system, controls on other source streams may be necessary.

6.4.1.2 Task L.3a.2 - Performance Criteria Determination

1. In addition to the analyses conducted in the Leachate Management Feasibility Study and ROD performance criteria may be determined based on at least the following factors:
 - Local, State and/or Federal standards determined to be ARAARs for the type, location and configuration of the treatment facilities selected.
 - Cost/quality tradeoff evaluations, when appropriate, such as: (1) sludge quality and disposal costs, or (2) effluent quality and special POTW charges.
 - Special technical considerations such as effects of quality on vegetation for an irrigation option.
2. Performance criteria shall be established for liquid effluents, air emissions and sludges as discussed in the following sections.

Air Emissions Criteria

- 1 Two liquid effluent options for onsite treatment are (1) discharge into a POTW Los Angeles County Sanitation Department (LACSD) sewer pipeline, and (2) use of the effluent as onsite irrigation water after blending with other irrigation water streams.
- 2 The effluent may be discharged to the POTW, based on standard pretreatment and discharge limits consistent with ARARs.
- 3 If effluent is considered for irrigation, at least the following factors shall be evaluated:
 - Regulatory concentration limitations for water as applied to the ground surface.
 - Consumptive limitations for existing or desirable types of vegetation.
 - Costs for effluent storage during extended rain periods.
 - Blending potential for precise application rates and those which may be modified by other site activities, including final remedies.
 - Qualities and costs of waters for blending, such as fresh drinking water or recycled sanitary treatment plant effluent.
- 4 The following factors may also be considered in establishing the effluent quality:
 - The requirements (if any) and schedule for delisting of listed hazardous waste.
 - Preliminary analyses requirements, and the related potential effects on the system.

Air Emissions Criteria

- 1 To the extent practical and as required by applicable laws and regulations, the LTS shall be enclosed so that off-gases are contained. As determined during design, emissions of off-gases shall be controlled by: (1) direct discharge for permissible small sources, (2) use as combustion air at a flare system, (3) activated carbon treatment at the location of treatment or storage, or (4) other means.
- 2 Air quality performance criteria for new emission sources shall be determined using applicable standards, including integration with other site activities as appropriate.

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Sludge Performance Criteria

- 1 Application of sludge performance criteria (e.g., chemistry, solids content) anticipated volumes and storage, and handling and disposal costs of different sludge types shall be incorporated in the cost-effectiveness evaluation.
- 2 Studies, as appropriate to determine waste management procedures, shall consider delisting and special analyses costs for sludge which may be determined to be hazardous.

Process Flexibility and Redundancy Strategies

1. An important step toward process and location selection (to be made consistent with the Leachate Management ROD) shall be the determination of the amount of flexibility and redundancy required to:
 - Optimize the combined collection, storage and treatment activities.
 - Provide continuous operation for a reasonable range of influent conditions.
 - Avoid excessive plant shutdown periods, which could adversely affect the collection operations.
2. An example of flexibility would be to provide a piping arrangement, controlled by valves, to allow the operations personnel to use different portions of the LTS for treating liquid streams with dissimilar chemical characteristics. An example of redundancy would be to provide two reactors in parallel, as opposed to a single larger tank, so that the entire system would not be shut down during a maintenance period.

6.4.1.3 Task L.3a.3 - Treatability Screening

1. Treatability screening shall be undertaken to identify the alternative treatment systems (e.g., physical/chemical, powdered activated carbon, air stripping) having the potential to satisfy the quality/quantity estimates, performance criteria and the flexibility strategy, in accordance with the Leachate Management ROD. Then, initial bench scale laboratory tests on representative leachate samples shall be undertaken to eliminate the least desirable process arrangements and to select those appropriate for larger scale bench/pilot test treatability evaluation.
2. Treatability screening shall consider: (1) feasibility based on state of the art knowledge and initial bench scale tests, (2) capital costs, (3) operating costs, (4) net present worth.

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- (5) flexibility, (6) compatibility with probable long-term solutions, (7) long and short-term effectiveness, (8) state and community acceptance, (9) consistency with the anticipated final remedy, and (10) applicable EPA Guidance.

6.4.1.4 Task L-3a.4 - Bench/Pilot Testing Plan

1. A plan to guide the program shall be prepared by the Work Defendants and approved by the EPA prior to beginning the formal bench/pilot testing activities. The plan shall include the following elements:
 - Introduction and Purpose.
 - The rationale for selecting liquid types to be tested.
 - The rationale for selecting the processes to be tested.
 - Sampling and analysis protocols.
 - Flow diagrams for the tests to be conducted.
 - The anticipated testing schedule, including factors which shall be used to determine when advance testing is completed.
 - Task-specific addendum to the general plan:
 - Safety, Health and Emergency Response Plan.
 - Sampling, Analysis and Quality Management Plan.

6.4.1.5 Task L-3a.5 - Bench and Pilot Scale Treatability Studies

1. Appropriate treatment processes shall be selected for the bench/pilot testing program. If the flexibility strategy shows benefits for including optional flow paths for certain sources, the bench scale program would be expanded to test each configuration which may be selected.
2. Final treatability acceptance tests shall include the following range of influent characteristics:
 - The expected quality after equalization or segregation.
 - Maximum concentrations of the most difficult constituents which could be expected.
 - Potential upset conditions caused by unusual stream quality/quantity conditions.
 - The maximum rate of through-pet flows anticipated.
 - Potential upset conditions caused by operator error or misoperations.
3. The treatability performance shall initially be evaluated against the performance requirements identified in Subchapter 6.4.1.2. Those processes which pass these requirements shall be included into the final selection process.

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6.4.1.6 Task L-3a.6 - Final Process Selection

1. The final process, or combination of processes selected, shall be determined by an evaluation of at least the following factors, and in a manner consistent with the Leachate Management ROD:
 - Bench and pilot scale performance, including ability to meet performance criteria.
 - Anticipated reliability (avoidance of prolonged shutdowns) in spite of influent changes or misoperation.
 - Satisfaction of the flexibility strategy.
 - Capital and operating costs.
 - Operational procedures.
 - Compatibility with the potential final remedy.
 - Public health and safety.
2. Evaluation of each process configuration shall consider the potential for using only portions of the system to treat some of the inflowing liquids, if cost or operational efficiencies could be improved. Examples of this include: (1) that pumped ground water would only be subjected to air or steam stripping prior to discharge if VOCs are determined by EPA to be the only constituents of interest; or (2) only a portion of the flow may be subjected to oil and grease separation, if other inflowing liquids do not have significant quantities of these constituents.
3. The number, size, location and interconnection of individual equalization tanks shall be determined from: (1) the estimates of the influent quality and quantity, (2) the sensitivity of the plant to upset, and (3) the range of operational conditions anticipated for other SCM activities, the gas control operable unit, and the RUFFS hydrogeologic program, which may generate liquids requiring treatment. The desirability or necessity to provide equalization or some pretreatment processes near the source shall be evaluated. If appropriate, the following may be considered in performing this evaluation:
 - If oil and grease are to be removed from only one or a few of the total sources, it could be desirable to remove those constituents before equalization occurs.
 - It could be essential to avoid conditions which can cause emulsions, such as pumping the liquid a long distance.
 - Air stripping and/or aeration of certain streams might produce off-gases most appropriately removed by incineration or flaring at the landfill gas flare station. These determinations will require close coordination with the EPA and other concerned.
 - pH control or special descaling procedures may be required for some streams to reduce the potential for corrosion or clogging of main liquid transport systems.

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Capacity Selection

- 1 The treatment plant capacity shall be selected on the basis of such factors as
 - Rates based on historical and planned activities
 - The potential for large changes in quality as the result of other site activities
 - The degree to which the LTS can serve as part of the final remedy
 - The initial working period (hours and days) and increased capacity possible from increasing the operational time
 - The use of batch or continuous flow processes
 - Cost to volume relationships for key equipment
 - Difficulties in modifying a component because of grading or installation requirements
- 2 Specific components may initially have different capacities depending on cost and operational efficiency and limitations on future modifications or improvements. For example, the influent and effluent storage may be built in stages to accommodate increasing flow rates

System Configuration

- 1 At least the following shall be considered factors for determining the plant configuration
 - The plant location
 - Available suitable land area
 - Foundation conditions
 - Site boundaries and buffer zones
 - The configuration of individual plant components
 - Advantages of physically separating portions of pretreatment or equalization
 - Potential requirements for expanding key components or the entire facility
 - Spill containment capabilities
 - Operation and maintenance controls
- 2 Special design factors, such as required containment volume, seismic loadings and the potential for facility expansion, shall be included in the determination of the overall plant size and its configuration. For example, both a concrete pit containment and a diked containment system shall be evaluated.

- 3 Factors to be considered for determining the leachate influent transport system configuration shall include

- Anticipated collection points for leachate, landfill gas condensate, equipment washdown, and liquids from RUFIS activities
- The flexibility and redundancy strategies (see Subchapter 6.4.1.2)
- Options ranging from complete piping systems, suitable for both interim and long term flows to vacuum truck transport for an appropriate period
- The need to incorporate certain pretreatment or equalization elements nearer the collection point than the treatment plant

6.4.1.7 Task 1.3a.7 - Predesign Report Preparation

- 1 The results of the predesign tasks shall be used to prepare a Predesign Report. When approved by EPA, this report shall direct the LTS design task. The Predesign Report shall include at least the following basic elements

- Introduction and Purpose.
- Results of the Predesign studies including:
 - Liquid quality and quantity estimates
 - Influent storage and equalization requirements
 - Special pretreatment requirements
 - The anticipated range of conditions to be encountered
 - Effluent and sludge performance criteria
 - The redundancy and flexibility evaluations
 - Results of the bench/pilot tests
- The evaluation used to recommend the final LTS system.
- Description of the selected system.
- Addendum to the General Sampling, Analysis and Quality Management Plan, if appropriate.
- The LTS Design Basis Manual, as described in the next section.
- The recommended design review steps and schedule.

- 2 The Design Basis Manual shall describe, as accurately and quantitatively as possible, the criteria which the design activities must satisfy. The manual shall include at least the following basic elements:

- Introduction and Purpose.
- Performance Requirements.
 - Effluent Performance Criteria.
 - Air Emission Criteria.
 - Sludge Performance Criteria.
 - ARAR Requirements.
 - Siting Requirements.

- Initial and Long Term Operational Procedures
 - Degree of Automation.
 - Personnel Requirements.
 - Operational Hours
- Design Criteria
 - Capacities of Major Components.
 - Flexibility and Redundancy Requirements.
 - Expansion Potential.
 - Containment Criteria.
 - Longevity Requirements.
 - Foundation Criteria.
 - Sewer and Drainage Criteria.
- Control and Monitoring Requirements.
 - Construction
 - Site Security
 - Schedule
 - LMS Activities.
 - Integration Requirements

6.4.2 TASK L.3b - PLANT AND FACILITIES DESIGN ACTIVITIES

- 1 The design phase shall consist of preparation of final plans and specifications for the complete LTS. The design shall be directed toward satisfying requirements specified in the Design Basis Manual. For convenience of review and construction, design packages shall be divided into three basic functions:
 - Pretreatment facilities.
 - The treatment plant.
 - Infrastructure facilities.
- 2 The design shall be submitted for review at three (Intermediate - 50%, Preliminary-90% and Final) or four (Preliminary - 30%, Intermediate - 60%, Preliminary - 90% and Final) levels of completeness as approved by the EPA Project Coordinator based on review of the recommendation provided in the Final Design Report.
- 3 Design subtasks include:
 - Identification of all permits, approvals, and site access agreements required for the project, including a description of the data requirements and anticipated approved schedule for each.
 - Assurance that ARAR requirements are analyzed and incorporated, as appropriate, into the design. Controlling parameters as required by such standards shall be identified.

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- Value engineering screening in areas where a potential for cost savings exists. Value engineering screening shall be limited to project refinements which would not significantly change or alter the approved remedy, unless otherwise approved by EPA. Value engineering screening shall consist of listing high cost items that have a potential for cost savings. EPA may approve a formal value engineering study for those areas which exhibit reasonable potential for significant cost savings. Potential impacts on the remedial action project schedule and budget for a formal value engineering study shall be identified and provided to EPA upon request.
 - Inclusion in the technical specifications of contractor requirements for providing appropriate service visits by experienced personnel to supervise the installation, adjustment, startup and operation of the treatment systems, and appropriate operational procedures training once the startup has been successfully accomplished.
 - A Detailed Cost Estimate including a summary sheet, quantity take off sheets, and all work broken into labor, material, plant, supervision and administration and contingencies.
4. Each Design Package shall include at least the following items, completed to a level compatible with the design stage:
 - The procedures and schedule for obtaining permits, approvals or access agreements, as necessary. The permits, approvals, and access agreements, as necessary, should be obtained prior to the time of the Preliminary Design submittal.
 - The flow diagram and P&ID for collection piping and plant systems
 - System general arrangement, showing locations of:
 - Collection Points.
 - Pipelines and Pumps.
 - Tanks.
 - Equalization and Pretreatment Systems.
 - Containment Systems.
 - Treatment Plant Outlines.
 - Access Roads and Parking Lots.
 - Office and Lab Structures.
 - Fence Lines and Gates.
 - Minimum dimensions to property lines.
 - Easement or right-of-way locations for offsite pipelines, if appropriate.
 - The POTW tap-in location, if appropriate.
 - The location of irrigation blending facilities, if appropriate.
 - The preliminary arrangement for controlling drainage at each system component.
 - Mechanical, electrical/instrumentation and civil/structural plans for the entire project.
 - Special conditions and construction specifications.
 - Engineering calculations used to determine component sizes, structural designs and the control of drainage.
 - The Startup and Operations Sections for inclusion to the SCMLMS Operations Manual.
 - Addendum to the General Safety and Quality Plans, if appropriate.

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5. The Startup and Operations Section to the SCMLMS Operations Manual prepared as part of the design shall provide detail on the specifics and degree of operational activities required at the completion of the LTS and will provide a more accurate cost estimate of operational activities. Appropriate elements in the site-specific Startup and Operations Section include:

- Description of Startup procedures:
 - Prestartup equipment testing and system calibration.
 - Initial reagent handling
 - Step-wise procedure for initiating flow into each component
 - Initial flow constraints
 - Systems checks to evaluate performance.
 - The desirable flow build-up schedule.
 - Operator training procedures.
- Integration requirements with other site activities which:
 - Can affect liquids requiring treatment
 - Can be affected by the operation of the LTS.
- Description of Normal Operation and Maintenance:
 - Description of tasks for operation.
 - Description of tasks for maintenance.
 - Description of prescribed treatment or operating conditions.
 - Schedule showing frequency of each operational task.
- Description of Potential Operating Problems:
 - Description and analysis of potential operating problems.
 - Sources of information regarding problems.
 - Common remedies.
- Description of Routine Monitoring and Laboratory Testing:
 - Description of monitoring tasks.
 - Description of required laboratory tests and their interpretation.
 - Required QA/QC.
 - Schedule of monitoring frequency and when, if so provided, to discontinue.
- Description of Alternative Operations:
 - Alternative procedures to prevent undue hazard, should systems fail
 - Analysis of vulnerability and additional resource requirements should a failure occur.
- Safety Plan:
 - Description of precautions, necessary equipment, etc., for site personnel.
 - Safety tasks required in event of systems failure (as an addendum to general site safety plan).

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- Description of Equipment
 - Necessary equipment for operations
 - Installation of monitoring components
 - Maintenance of site equipment
 - Replacement schedule for equipment and installed components
- An Operations annual budget which should include but not be limited to the following:
 - Cost of personnel
 - Costs of preventive and corrective maintenance
 - Costs of equipment, supplies, etc.
 - Costs of any contractual obligation (e.g., lab expenses)
 - Costs of operations (e.g., energy costs)
- Records and Reporting Mechanisms Required
 - Daily Operating Logs.
 - Laboratory Records.
 - Records for Operating Costs
 - Mechanism for reporting emergencies
 - Personnel and maintenance records.
 - Monthly/Annual Reports to State agencies
- Appendices Describing:
 - Regulatory and Permit Requirements
 - Manufacturer's Equipment Data

The LTS Operations Manual shall be prepared as a separate insert for incorporation in the SCMLMS Operations Manual as described in Chapter 4.0. General topics in the SCMLMS Operations Manual not be duplicated.

6.4.3 TASK L 3c - PROCUREMENT AND CONSTRUCTION

1. Administration of the bidding process and contractor selection shall be in accordance with the procedures established by the Work Defendants. The EPA shall be provided with qualifications of selected contractors.
2. The Special Provisions Section of the specifications shall identify the contractor's responsibilities regarding onsite activities and special requirements such as quality control procedures or health and safety precautions.
3. The Special Provisions Section shall also include a completion schedule for plant startup and beginning of normal operations. If necessary, the schedule may be modified by agreement of EPA and the Work Defendants based on input received from the contractor.

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4. The Work Defendants shall provide technical and management oversight for LTS construction. The oversight functions shall include at least the following items:

- Procedures and schedules for the review of contractor submittal
- The format of weekly construction meetings
- Procedures for making engineering interpretations of the plans and specifications.
- Procedures for interpreting the technical, schedule and cost impacts of proposed field changes and contract modifications.
- Procedures for documenting field changes.
- Procedures verifying and documenting compliance with quality control requirements.

6.4.4 TASK L.3d - STARTUP

1. The startup procedures in the LTS Startup and Operations Section of the SCMLMS Operations Manual will be the guide for pre-startup equipment testing. The revised Section following pre-startup will be the guide for plant startup activities.

6.4.5 TASK L.3e - OPERATIONS

1. The operations portion of the revised LTS Startup and Operations Section of the SCMLMS Operations Manual will be the guide for operating the LTS under both normal and abnormal conditions.

6.4.6 TASK L.3f - FINAL LTS CLOSEOUT REPORT

1. A Final LTS Closeout Report shall be prepared and submitted to EPA within 8 weeks from plant start-up. This report shall include at least the following items:

- Introduction.
- As-built plans and specifications.
- Quality Control Records.
- Explanation of significant changes which occurred compared to the design and the potential impact of those changes on performance.
- Discussion of actual expenditures vs. budget projection.
- Importance of the project experience to future project activities.
- Suggestions for modifications, which should be made to future construction of similar or related items.
- Revised LTS Startup and Operations Section of the SCMLMS Operations Manual.

7.0 PRELIMINARY AND PROPOSED SCHEDULES AND PROPOSED BUDGET FOR WORK DEFENDANTS PROPOSED SCOPE OF WORK

7.1 INTRODUCTION

1. As discussed in Subchapter 1.2, the Work Defendants intend to undertake certain improvements which they believe shall accelerate completion of important environmental improvements for the site. This chapter provides the proposed schedule, budget and Potential Improvements Categories which the Work Defendants believe are appropriate for this work. However, the EPA cannot initially commit to approve specific improvements until (1) appropriate justification studies have been completed, and (2) there is assurance that basic SCM and LMS activities during the initial five year period shall be adequately accomplished with remaining "Work" Escrow Account funds pursuant to Paragraph C of Section IX (Work to be Performed) and Section X (Escrow Account) of the Decree.
2. The Project Proposal Plan (Chapter 4.0, Item 9) will be used during the Pretransition and Transition Periods to further evaluate the need and schedule for preparing potential improvement proposals. The schedules discussed in this Subchapter will be modified as a result of the Project Proposal Plan.
3. The proposed schedule for the overall program is illustrated in the following two formats:
 - Figures 7.1a and b, which present a detailed schedule for the first 2 years (104 weeks), beginning on the effective date of the Decree. The preliminary schedule for each activity shows the various stages of Work Defendant activities and EPA reviews according to procedures presented in Chapters 8.0 and 9.0.
 - Figure 7.2, which presents a summary of the entire 5-year period.
4. Table 7.1 presents the proposed budget for the 5-year program based upon performing the basic site control functions, constructing an on-site treatment plant and performing the anticipated improvements. The budgets for each period correspond to activities shown in the schedules.
5. The proposed data are described in the following subchapters:
 - 7.2 Potential Improvement Categories
 - 7.3 Proposed Schedule
 - 7.4 Proposed Budget

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STANDARD FORM NO. 64 (REV. 5-22-64) PREVIOUS EDITIONS ARE OBSOLETE
GSA GEN. REG. NO. 27
MAY 1964 EDITION
GSA FPMR (41 CFR) 101-11.6

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Proposed by the House and Senate about 1840, the act was passed and only in 1848 was it approved. It was the first time that the House and Senate had agreed on a bill.

The Page 10 Proposals for Improvements are placed early in this program to provide data for deriving the rest of the plan, and if so, the whole of the plan will be done, and if so, the whole of the plan will be done.

¹⁴ EPA Science Boards are based on the following EPA committees:

- Federal Science and Policy Advisory Board
- Federal Science and Policy Advisory Board

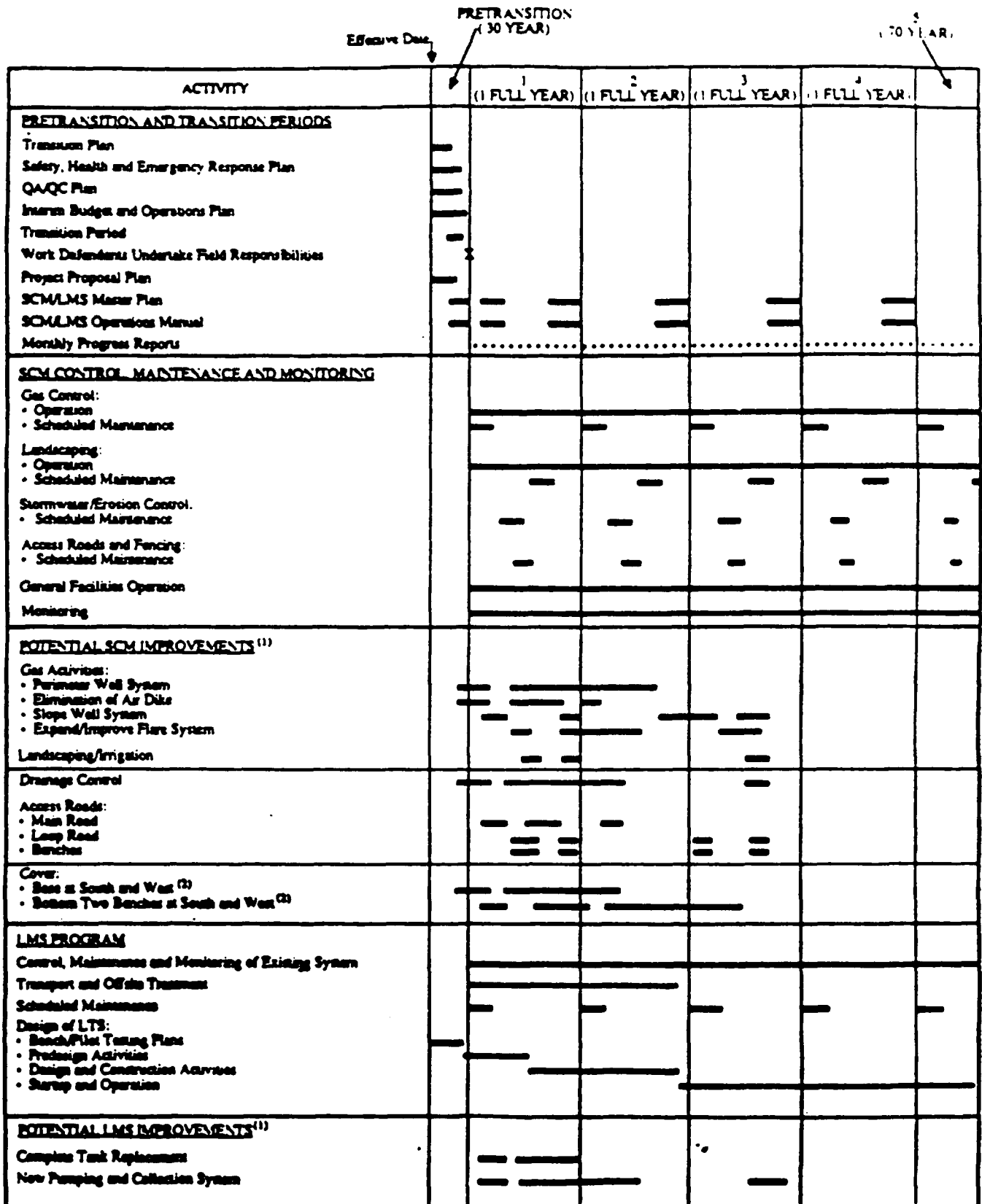
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See Table 7. to the Legend and Notes

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FIGURE 7.2
EXAMPLE 5-YEAR SCM/LMS SCHEDULE
 (See Figures 7.1a & b for Details of First Two Years)

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⁽¹⁾ The Project Proposals for Improvements are planned early in the program to provide data for deciding if they will be done, and if so, the revised schedule. The design and construction schedules shown are initially proposed by the Work Defendants.

⁽²⁾ Proposals for the Base and Cover should be integrated and may be completed during the Project Proposal Plan development.

TABLE 7.1
PROPOSED SCMLMS ESTIMATED COSTS⁽¹⁾
FOR 5-YEAR PERIOD
(\$000)

ACTIVITY	PRETRANSITION (1980 YEAR)	1 (1981 YEAR)	2 (1982 YEAR)	3 (1983 YEAR)	4 (1984 YEAR)	5 (1985 YEAR)	SUBTOTAL	CONTINGENCY	TOTAL
PRETRANSITION AND TRANSITION	450	320 ⁽¹⁾	200 ⁽¹⁾	200	200	160 ⁽¹⁾	1,530	350	1,880
SCM CONTROL MAINTENANCE AND MONITORING	0	1,870	1,850	1,810	1,740	1,120	8,390	1,890	10,280
POTENTIAL SCM IMPROVEMENTS	60	1,900	3,060	1,380 ⁽¹⁾	.. ⁽¹⁾	.. ⁽¹⁾	6,400	1,440	7,840
LMS PROGRAM	40	1,460	4,070	1,500	1,620	1,130	9,840	2,450	12,290
POTENTIAL LMS IMPROVEMENTS	0	410	200	740	1,370	340	1,710
SUBTOTAL	550	5,940	9,401	5,650	3,560	2,410	27,330		
CONTINGENCY	130	1,400	2,200	1,330	840	570	6,470		
TOTAL	680	7,340	11,601	6,980	4,400	2,980	34,000		

(1) This cost estimate projection will be reduced as part of the initial SCMLMS Master Plan.
(2) Includes completion of the SCMLMS Master Plan and Operations Manual and 12 Monthly Reports.
(3) Includes revision of the SCMLMS Master Plan and Operations Manual and 12 Monthly Reports.
(4) Includes revision of the SCMLMS Master Plan and Operations Manual and 8 Monthly Reports.
(5) The overall contingency will be reviewed at the time of each Master Plan revision, and if a decrease is apparent that certain funds are becoming available, the Work Definitions may recommend additional improvement activities.

7.2 POTENTIAL IMPROVEMENT CATEGORIES

1. In order to prepare the schedule and budget, priorities for potential improvements will be established through the Project Proposal Plan and SCMLMS Master Plan approval process described in Chapter 4.0. For purposes of this document, the potential improvements are preliminarily divided into the following 3 categories, which are then used to develop the proposed budget and schedule set forth herein:

- Category I - Those improvements which should be decided upon before finalization of the SCMLMS Master Plan, because of their importance to the overall planning and control activities. These include:
 - Expansion of the gas perimeter well system.
 - The air dike replacement.
 - Procedures for improving drainage control.
 - Construction requirements at the base along the south and west boundaries.
- Category II - Those improvements which should be well defined, but not necessarily decided upon, at the time of preparation of the SCMLMS Master Plan because of their potential importance for deciding upon:
 - (1) a Category I item or (2) maintenance and minor improvements which might be undertaken during the first year of SCMLMS activities. These include:
 - Placement of cover on the bottom two benches (e.g. bottom 80 feet) of the south and west slopes.
 - Installation of slope gas/leachate extraction wells.
 - Additional improvements to the existing liquid collection and storage system.
 - Installation of additional pumps in wells and the related collection system.
- Category III - Those improvements which: (1) cannot be defined until higher category items are decided upon or (2) do not have significant potential importance to the first year of activities in the Master Plan. These include:
 - Improving the existing flare stations.
 - Landscaping/irrigation improvements.
 - Access Road Improvements.

2. The following subchapters describe why each item is included in the specific category for the proposed schedule and budget.

7.2.1 CATEGORY I IMPROVEMENTS

1. Both the Work Defendants and EPA believe that gas migration at the south and west boundaries should be reduced and that apparent undesirable aspects of the air dike should be addressed as soon as possible. Therefore, some improvements to the perimeter control system and elimination of the air dike should be accomplished during the first year, if possible.
2. Drainage control is considered to be important because the potential for Site damage to occur in the event of a large storm; and drainage control is related to most other SCMLMS systems since: (1) its configurations must be compatible with these other systems and/or (2) the failure of the drainage system could affect the integrity of these other systems. Therefore, drainage control for the Site appears to be an improvement which should be evaluated as early as possible.
3. An early decision as to whether to conduct an improvement to establish a working foundation on the south and west boundaries is very important because this factor will directly affect other site activities including:
 - Placement procedures and the potential effectiveness of the gas perimeter control and monitoring system.
 - Procedures for drainage control on the landfill deck and south and west slopes.
 - Procedures for further modifying the existing collection and storage tank system.
 - Access road improvement and maintenance procedures.
 - The feasibility of installing cover on a portion of the slope.
 - The feasibility of installing gas and leachate recovery wells on the south and west slopes.
 - If and how landscaping/irrigation changes should be made on the south and west slopes.

Because of the importance of this activity to the control and maintenance for much of the Site based on current information it appears appropriate to thoroughly evaluate alternatives for preparing the base of the south and west slopes as early as possible, and to include appropriate modifications, if any, into the first years' SCMLMS Master Plan.

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7.2 CATEGORY II IMPROVEMENTS

1. A decision regarding cover on the bottom two benches may not be required for the initial SCMLMS Master Plan. However, it will be important to consider the potential configurations for such cover so that its potential importance to other items (e.g., base preparation, perimeter well placement, the potential for slope gas/leachate extraction) is well understood. The proposed schedule provides that proposal for providing cover be completed prior to completion of the Master Plan, although EPA's review and decision may occur later.
2. The possible timing of the installation slope wells for gas and/or leachate extraction will have an impact on: anticipated gas control performance; treatment plant capacity requirements, and flare station capacity requirements. The proposed schedule also provides for the Project Proposal for this activity to be completed in time for its probable implementation schedule to be considered in the Master Plan.
3. Further improvements to the existing liquid collection system will require integration with most other improvement activities. To minimize potential conflicts or the need to duplicate the same improvement work in successive years, the basic planning of these improvements are expected to be accomplished in time for consideration in the SCMLMS Master Plan.
4. The schedule and location for installing additional pumps could have a direct effect on the predesign activities for the LTS system. For example: (1) the numbers and locations of pumps will determine the potential volume and quality of leachate which could be made available for treatment, and (2) the potential extraction locations will be important for planning of collection, transportation and possibly pretreatment aspects of the LTS.

7.3 PRELIMINARY AND PROPOSED SCHEDULES

1. Figures 7.1a and b show detailed preliminary and proposed (for improvement) schedules for the SCMLMS activities. Appropriate portions of the schedule shall be used for specific activities, until the first year SCMLMS Master Plan is completed, or the need for changes are identified as the initial activities are being implemented.
2. Figure 7.2 shows an example schedule for a 5-year period. As appropriate, schedules shall be periodically updated or modified to reflect the entire SCMLMS program.

3. The proposed schedules for potential improvements reflect the categories presented above. These portions of the schedules will be modified by the Project Proposal Plan.

7.4 PROPOSED BUDGET

1. Table 7.1 presents the Work Defendants' Proposed Budget for the 5 year SCMLMS period as estimated costs, in the following sequence:
 - The pretransition and transition activities during the first 0.3 years.
 - Proposed budgets for the next 4 full years, and
 - A fifth, partial (approximately 0.7) year.
2. Estimated costs for the Pretransition period correspond to the activities shown during the first 15 weeks on Figure 7.1a, including 6 weeks of in-field transition activities.
3. The estimated costs for years 1 to 5 in the Pretransition and Transition Category are for revising the Master Plan and Operations Manual, and preparing the Monthly Progress Reports.
4. Costs budgeted for improvements are based on experience by the Work Defendants with similar activities at other locations. Each of these estimates shall be updated and substantiated as part of the Project Proposal Plan (Chapter 4.0, Item 9) and individual improvement Project Proposals (Subchapter 8.2) prepared for EPA's review and approval.
5. Significant cost contingencies are provided for each year's activity. If, as the work progresses, it becomes apparent that the contingency for the first years is not being utilized, the Work Defendants may recommend additional improvements to further increase control performance, reduce control and maintenance costs, or reduce final remedy requirements. Examples of such additional improvements could be:
 - Providing cover for additional benches on the west and/or south sides
 - Providing for options for cover on the north and/or east sides
 - The installation of additional slope gas/leachate extraction wells

6.0 REPORTING AND REVIEW PROCESS (DELIVERABLES)

8.1 INTRODUCTION

1. Figures 8.1 to 8.1d illustrate the types of review procedures for the various deliverables required of the Work Defendants under this Device. Deliverable schedules are presented in Chapter 9.0

2. The contents of the following types of documents are provided in the remaining sections of this chapter

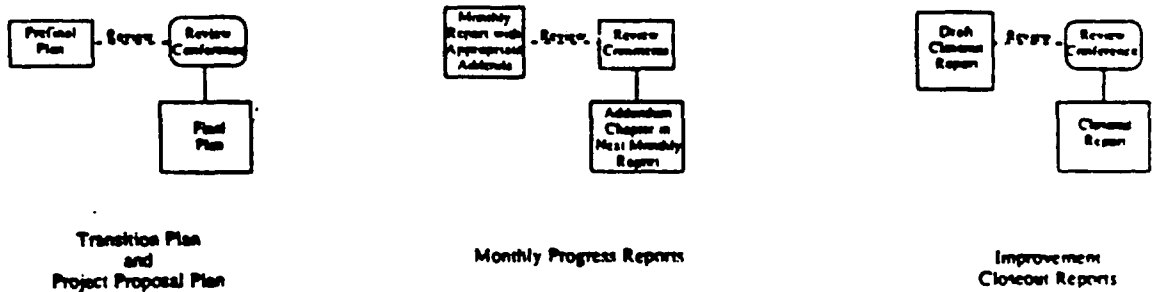
- Subchapter 8.2: Project Proposals
- Subchapter 8.3: Type 1 Review Procedures
These procedures will be used for approval of:
 - Monthly Progress Reports
 - Improvement Closeout Reports
 - Transition Plan
- Subchapter 8.4: Type 2 Review Procedures
These procedures will be used for approval of:
 - Designs
 - Original plans, such as:
 - Safety Plans
 - QACC Plans
 - Incident Operations and Budget Plan
 - SCRAMS Master Plan
 - Operations Manual
 - Annual Revisions to Plans
- Subchapter 8.5: Type 3 and 4 Review Procedures
These procedures will be used for moderately complex or complex designs, as appropriate.
- Subchapter 8.6: LTS Design, Construction and Startup
- Subchapter 8.7: Emergency Repair

3. Several of the review procedures shown in the figures include review conferences to assist efficient and effective coordination between the Project Coordinator. Details of the review process, including review conferences, if appropriate, shall be established by the EPA and

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TYPE 1 REVIEW PROCEDURES



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FIGURE 8.1
TYPE 1
REVIEW PROCEDURES

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TYPE 2 REVIEW PROCEDURES

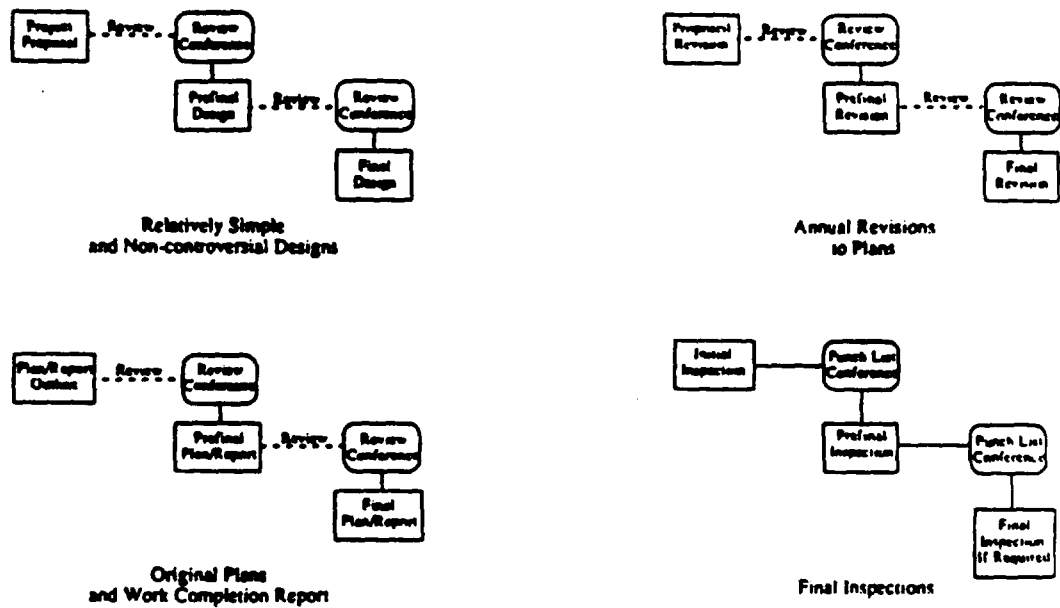
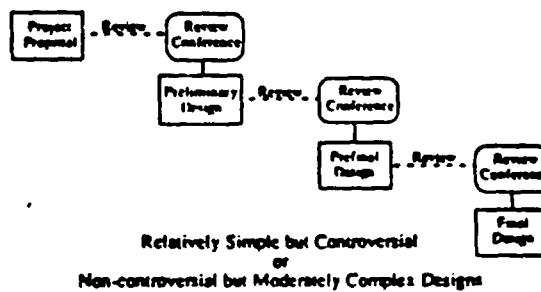


FIGURE 8.10
TYPE 2
REVIEW PROCEDURES

TYPE 3 REVIEW PROCEDURES



TYPE 4 REVIEW PROCEDURES

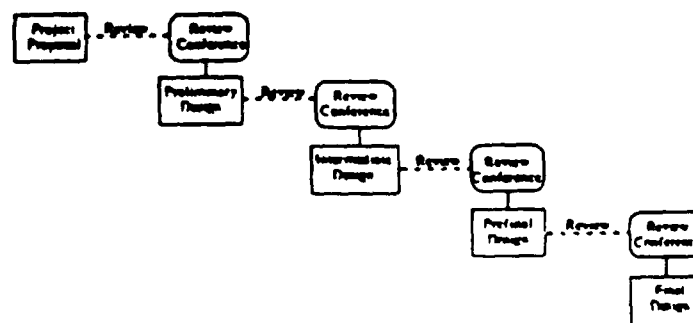


FIGURE 8.11
TYPE 3 AND TYPE 4
REVIEW PROCEDURES

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The following guidelines will be used to establish the appropriate review process:

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review procedure (Type 2, 3 or 4) that shall be used for the improvement, if implemented, for EPA evaluation and approval. Project proposals shall include at least the following items:

- Summary of Proposed Improvement
- Need for the Improvement
- Evaluation of Other Alternatives
- Operational Impact
- Cost Impact
- Health and Safety Impact
- Schedule for Implementation of the Improvement
- Design/Implementation Precautions
- Alternatives for Implementation
- Future Implications/Consistency with Final Remedy
- Proposed Review Procedure Type and Schedule

8.1 TYPE 1 REVIEW PROCEDURES

8.1.1 MONTHLY PROGRESS REPORTS

1. Each Monthly Progress Report will include chapters for at least the following items:

- Introduction.
- Size and Systems Monitoring Results by activity type (e.g., perimeter gas extraction system, liquids collection) using computerized MIS summary forms including preliminary interpretation of data when possible. Specific data will be provided as appendices.
- Maintenance and repairs accomplished.
- The status of improvements being accomplished.
- The monthly progress report for the LTS, when appropriate.
- Public and agency interactions.
- A report on special actions or activity startups planned for the next month.
- Deliverables or Project Proposals submitted during the month.
- A list of deliverables to be submitted and their corresponding submittal dates for the following month.
- QA/QC data received during the month.
- A report on any unanticipated problems encountered or emergency actions undertaken and their resolution, including estimates of their potential impacts to system integrity, schedule or budget.
- Schedule and cost update in relation to the annual projections.
- An addendum to prior months' reports to include comments received and responses to those comments.
- Identification of significant budget increases.

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2. The monthly progress reports for December, March, June and September shall include a quality assurance report. This report shall contain information which demonstrates that the Work Defendants are complying with the requirements of Section XII (Quality Assurance/Quality Control) and the QA/QC Plan established pursuant to this Decree.
3. EPA comments to any prior Monthly Progress Report will be submitted to the Work Defendants' Project Coordinator. EPA comments received more than two weeks prior to a monthly report will be addressed in that month's report, other EPA comments will be addressed in the following month's report.

8.3.2 CLOSEOUT REPORTS

1. An Improvement Closeout Report will include at least the following information:

- Introduction.
- As-built plans and specifications.
- Quality Control Records.
- Explanation of significant changes which occurred compared to the design, and the potential impact of those changes on performance.
- Discussion of actual expenditures vs. budget projection.
- Importance of the project experience to future project activities.
- Suggestions for modifications which should be made to future construction of similar or related items.

8.3.3 TRANSITION PLAN

1. The Transition Plan content, described in Chapter 4.0, will be used to prepare the Preliminary Plan. A Plan Outline is not required.

8.4 TYPE 2 REVIEW PROCEDURES

8.4.1 RELATIVELY SIMPLE DESIGNS

1. Preliminary Designs shall include at least the following items:

- Permits and approvals obtained, where appropriate.
- Access plans, where appropriate.
- Final flow diagrams and preliminary P&IDs, when appropriate.
- A General Arrangement Plan showing the improvement in relation to other existing or planned conditions.
- Minimum dimensions to property lines, when appropriate.
- Design plans suitable for construction.
- Special Conditions and Construction Specifications.
- Engineering calculations, when appropriate.
- A Startup Plan, when appropriate.

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- Addenda to the Safety, QA/QC, Sampling, Operations Manual, as appropriate.
- A construction schedule indicating significant milestones.
- Value engineering where potential for substantial cost savings exists.

The prefinal design submission shall represent at least the 90 percent design completion level.

2. Final designs shall include all of the items in the prefinal design package with changes made, as appropriate, reflecting EPA Comments.

8.4.2 ORIGINAL PLANS

1. Required items to be included in original plans are provided in Chapter 4.0, Scope of Work for Pretransition and Transition Activities. Types of original plans include:
 - Safety, Health and Emergency Response Plan
 - QA/QC Plan
 - Interim Operations and Budget Plan
 - Project Proposal Plan
 - SCMLMS Plan
 - Operations Manual

8.4.3 ANNUAL REVISIONS TO PLANS

1. Each year the SCMLMS and Operations Manual will be revised (updated) to reflect:
 - (1) changes which have occurred at the site and (2) plans for the upcoming year. As a part of this process, the Safety and QA/QC plans shall also be revised, if appropriate, to reflect changes which have occurred.
2. Each portion of the plans (see Chapter 4.0) will be reviewed and modified by the Work Defendants to incorporate addenda prepared during the prior year, and to reflect other changes, determined to be necessary to make the plans current for conditions at that time.
3. When improvement designs or significant maintenance repairs are made during the year, addendum to the general plans shall be made to direct related field activities for the remainder of the year. These addenda shall include discussions for each relevant section in the plan. The addenda for each year will be incorporated into the annual revision.

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8.4.4 WORK COMPLETION REPORT

1. Prior to the completion of the Work outlined in this Scope of Work, and in accordance with the Decree, the Work Defendants shall submit a Work Completion Report. The report shall contain at least the following items, as appropriate, (with the exception of all data collected or developed during the 3 months prior to completion of the work which shall instead be submitted to EPA in the Monthly Progress Reports):
 - Introduction.
 - Description of all SCMLMS facilities.
 - Summary of SCM activities currently being performed.
 - List of manuals, plans, reports and current addendum to those documents which are being used for the SCMLMS activities.
 - List of potential site improvements not yet completed.
 - Manpower allocations and cost summaries for the past 12 months of SCMLMS activities.
 - SCMLMS monitoring data summary for the past 12 months.
 - Description of the phase out activities required.
 - Certification that the Work has been completed in accordance and in full compliance, or that Work Defendants have otherwise satisfied their obligations in accordance and in full compliance, with the Decree.
 - If Work Defendants' obligations under the Decree terminate before completion of the Work, this report shall also include a description of and status report on Work activities yet to be completed.

8.5 TYPE 3 AND 4 REVIEW PROCEDURES

8.5.1 MODERATELY COMPLEX AND COMPLEX DESIGNS

1. The Project Proposals shall include the items discussed in Subchapter 8.2.
2. The Prefinal and Final Design Packages requiring Type 3 and Type 4 Review Procedures have the same content requirements as designs requiring Type 2 Review Procedures (Subchapter 8.4.1).
3. The added design steps (Preliminary and/or Intermediate) also require data to be submitted for each of the topics required for the Prefinal Design Package. The level of detail provided should reflect approximately the following levels of design completeness:
 - Preliminary Design: Approximately 30 percent
 - Intermediate Design: Approximately 60 percent

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8.6 LTS DESIGN, CONSTRUCTION AND STARTUP

- Subchapter 6.4.1 through 6.4.3 describe the predesign, design and construction procedures required for the LTS. The types and numbers of design review packages shall be determined based on the recommendations provided with the predesign package.

- The review procedure is illustrated in Figure 8.14.

8.7 EMERGENCY REPAIRS

- Refer to Safety, Health and Emergency Response Plan for immediate actions required.
- After immediate health and safety concerns have been addressed, Work Defendants Project Coordinator shall develop a proposed plan for further action, if necessary and appropriate, and submit it to EPA for approval. Such plan shall be submitted within 7 days unless otherwise agreed to by EPA after consultation with the Work Defendants. Such plan shall include at least the following items:
 - Schedule for necessary repairs.
 - Identification of any remaining improvement proposals, including type of deliverables required and implementation of schedule.

9.0 SCHEDULES

- This chapter provides schedules for items required by the Work Defendants as discussed in Chapter 8.0. If EPA determines it is appropriate, the time periods set forth under this schedule may be extended without requiring a formal modification of the Decree. Requests for schedule modifications made by the Work Defendants should include a discussion of the reasons for the request. To the extent appropriate, Work Defendants shall conform to EPA the calendar date of subsequent deliverables.

9.1 SCHEDULE FOR ITEMS COMMON TO SOL AND LMS

9.1.1 PRETRANSITION AND TRANSITION PERIODS

- Transition Plan
 - Prefinal Plan: 4 weeks after the effective date of the Decree
 - Final Plan: 2 weeks after receipt of EPA comments
- Safety, Health and Emergency Response Plan
 - Plan Outline: 4 weeks after effective date of the Decree
 - Prefinal Plan: 4 weeks after receipt of EPA comments
 - Final Plan: 1 week after receipt of EPA comments
- QA/QC Plan
 - Plan Outline: 3 weeks after effective date of the Decree
 - Prefinal Plan: 4 weeks after receipt of EPA comments
 - Final Plan: 2 weeks after receipt of EPA comments
- Interim Budget and Operations Plan
 - Plan Outline: 2 weeks after effective date of the Decree
 - Prefinal Plan: 5 weeks after receipt of EPA comments
 - Final Plan: 2 weeks after receipt of EPA comment
- Transition with EPA Coordinator
 - Begin: 1 week after Approval of Final Transition Plan
- End (Beginning of Work Defendants control of site):
 - 1 week after EPA approval of Final Safety, Health, Emergency Response, QA/QC and Interim Budget and Operations Plans
 - If greater than 8 weeks of Transition Activities occur, a reduced personnel plan shall be established to be in effect until transfer of responsibility occurs

- **Project Proposal Plan**
 - Prefinal Plan: 6 weeks after effective date of the Decree
 - Final Plan: 2 weeks after receipt of EPA comments
- **First Submittal of SCMLMS Master Plan**
 - Outline: 2 weeks after EPA comments on the Prefinal Project Proposal Plan.
 - Prefinal Plan: 13 weeks after EPA approval of the Final Project Proposal Plan, but not earlier than 6 weeks after receipt of EPA comments on Master Plan Outline.
 - Final Plan: 4 weeks after receipt of EPA comments.
- **Operations Manual**
 - Outline: 2 weeks after EPA comments on the Prefinal Project Proposal Plan.
 - Prefinal Plan: 13 weeks after EPA approval of the Final Project Proposal Plan, but not earlier than 6 weeks after receipt of EPA comments on Master Plan Outline.
 - Final Plan: 4 weeks after receipt of EPA comments.

9.1.2 EMERGENCY REPAIRS

- **Repair Proposal:** EPA Project Coordinator to be notified as early as possible. Schedule of other deliverables shall be agreed to pursuant to Subchapter 8.7.
- **Emergency Repair Closeout Report:** 2 weeks after completion of the repairs.

9.1.3 TYPE 1 REVIEW PROCEDURES (Figure 8.1a)

- **Monthly Progress Reports:** 14th day of each month.
- **Incident or Emergency Response Reports:** Included in Monthly Report.
- **Closeout Draft Report:** 4 weeks after construction completion.
- **Closeout Final Report:** 2 weeks after receipt of EPA comments.

9.1.4 TYPE 2 REVIEW PROCEDURES (Figure 8.1b)

- **Type 2 Designs**
 - **Project Proposal:** Date to be determined.

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- **Prefinal Design** 4 weeks after receipt of EPA approval of proposal or as agreed to by the EPA Project Coordinator
- **Final Design:** 2 weeks after receipt of EPA comments or as agreed to by the EPA Project Coordinator
- **Annual Revisions to the SCMLMS Master Plan and Operations Manual**
 - **Proposed Revision:** The later of 9 months following EPA approval of prior year's subject approval, or the anniversary date of the Decree effective date.
 - **Prefinal Revision:** 4 weeks after receipt of EPA comments
 - **Final Revision:** 2 weeks after receipt of EPA comments.
- **Original Plans:** These schedules are included in the Pretransitional and Transitional activities.
- **Final Inspections**
 - **Initial Inspection:** At the appropriate construction stage agreed upon with the EPA Project Coordinator.
 - **Punch List Conference:** By all inspection personnel on the same day the Prefinal Inspection is completed.
 - **Prefinal and Final Inspection(s):** On the day agreed to by EPA Project Coordinators at the Punch List Conference.
- **Work Completion Report**
 - **Report Outline:** 3 months prior to Work completion or termination, or estimated date of termination pursuant to funding limitations of paragraph C of Section IX (Work to be performed) of the Decree.
 - **Prefinal Report:** 4 weeks after receipt of EPA comments
 - **Final Report:** 2 weeks after receipt of EPA comments.

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9.1.5 TYPE 3 AND 4 REVIEW PROCEDURES (Figure 8.1c and 8.1d)

- **Type 3 Designs**
 - **Project Proposal:** Date to be determined.
 - **Preliminary Design:** 4 weeks after receipt of EPA approval of proposal or as agreed to by the EPA Project Coordinator.
 - **Prefinal Design:** 4 weeks after receipt of EPA comments or as agreed to by the EPA Project Coordinator.
 - **Final Design:** 2 weeks after receipt of EPA comments or as agreed to by the EPA Project Coordinator.
- **Type 4 Designs**
 - **Project Proposal:** Date to be determined.
 - **Preliminary Design:** See Note 1.
 - **Intermediate Design:** See Note 1.
 - **Prefinal Design:** See Note 1.
 - **Final Design:** See Note 1.

Note 1: The Project Proposal for Type 4 Designs shall include the periods required for each design step. The approved Project Proposal shall then specify the length of time allowed between each comment period and the subsequent design submittal.

9.2 LTS SCHEDULE

9.2.1 PREDESIGN ACTIVITIES

- **Bench/Pilot Testing Plan**
 - **Outline:** 4 weeks after the effective date of the Decree.
 - **Prefinal Final Plan:** 2 weeks after the receipt of EPA comments.
 - **Final Plan:** 2 weeks after receipt of EPA comments.
- **Pre-design Report**
 - **Prefinal Report:** 22 weeks after date of EPA approval of Bench/Pilot Testing Final Plan.
 - **Final Report:** 3 weeks after receipt of EPA comments.

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9.2.2 LTS DESIGN

- **Preliminary Design:** 7 weeks after EPA approval of Final Design Report.
- **Intermediate Design:** 6 weeks after EPA approval of Preliminary Design, or 13 weeks after approval of Final Design Report if a Preliminary Design is not required.
- **Prefinal Design:** 9 weeks after receipt of EPA comments.
- **Final Design:** 3 weeks after receipt of EPA comments.

9.2.3 LTS CONSTRUCTION

- **Contractor Selection:** 8 weeks after EPA approval of Final LTS Design.
- **Construction Schedule, Safety and Sampling Plan Addendums and LTS Operations Manual Addendum:** Included in the Final LTS Design Package.
- **Monthly Progress Reports:** Included in SCMLMS Monthly Progress Report.
- **First Completion Inspection:** To be agreed on with the EPA Project Coordinator.
- **Final Completion Inspection:** To be agreed on with the EPA Project Coordinator at the first Inspection Punch List Meeting.

9.2.4 LTS STARTUP

- **Pre-Startup Equipment Testing:** Schedule included in Final LTS Design Package.
- **Startup Activities Begin:** As established in approved LTS Startup Section of the SCMLMS Operations Manual.
- **Startup Activities End:** As established and approved in LTS Startup and Operations Manual.
- **Final LTS Closeout Report:** 8 Weeks after end date of Plant Startup Section (6.4.6)

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EXHIBIT I

1.0 SYSTEM DESCRIPTIONS

1.1 ACTIVE CONTROL SYSTEMS

7-11 category includes components related to the leachate and gas control system and site irrigation at the Oil site. Some components are integral to both gas and leachate management.

1.1.1 Gas Management. Landfill gas is controlled by 3 active subsystems: The Interior Gas Extraction System, the Perimeter Gas Extraction System, and the Perimeter Airflow System. (Figures 1 and 2)

1.1.1.1 Interior Gas Extraction System. The interior gas extraction system was installed and operated by Getty Synthetic Fuels, Inc. (GSF) from 1978 to 1986. The gas system was originally designed to recover high quality gas for commercial use. The gas processing plant has been removed and recovered landfill gas is now flared (incinerated). This system extracts landfill gas from the center of the landfill. The system consists of a series of vertical extraction wells and horizontal surface collectors, a network of conveyance piping, and a flare station. Figure 1.1 identifies the location of major system components. The current rate of extraction is approximately 3 to 15 mmcf/d.

Wellfield. The interior wellfield consists of wells, surface collectors, header lines, and valve vaults.

Wells. There are 46 wells in the interior extraction wellfield located on the top deck of the landfill. Wells are constructed of PVC (readium and vertical wells) or carbon steel pipe (gels driven wells), and range in depth from 100 to 370 feet.

Surface Collectors. Two surface collectors also extract gas from the top deck of the landfill. Surface collectors consist of a gas-impermeable membrane placed over a gravel bed and covered with a layer of soil ranging from a few inches to 20 feet in depth. A network of shallow (up to 30 feet deep) wells and horizontal HDPE perforated pipe (flexibles) convey landfill gas from beneath each membrane to a central collector pipe.

Conveyance Components. Wells and surface collectors are connected to submersible HDPE header lines which carry the extracted gas to the flare station. Valves along the header lines allow flow adjustment or total shut-off of various areas of the well field. Barometric traps at various points allow condensate to drain from the lines into the landfill. The depth of the header lines for the interior extraction system is estimated at 30 feet deep. Valves for the header lines are located in 6 vaults on the top deck of the landfill.

Flare Station. The interior flare station composed is located on active cell in the northeast corner of the north parcel. The interior flare station consists of all piping, instrumentation, and equipment downstream of a 27' flange between the high density polyethylene (HDPE) line from the well field and a collection steel casing leading into the condensate fraction tank. The flange is located at the extreme southeast corner of the flare station compound.

Condensate Fractional. Landfill gas first passes through a barometrically vented fraction tank, where condensate is separated from the gas stream. Liquid is automatically pumped from the fraction tank to a 6300 gallon polyethylene storage tank. Operation of the condensate pumps is controlled by tank-level switches. The storage tank is located on a dirt pad owned by a private firm. The condensate from the storage tank is removed by vacuum truck, as needed, for transport to an off-site treatment/disposal facility. A condensate blow-pot and a bucket venturi are also in-line upstream from the blower. The blow-pot utilizes tank. Level switch and condensate is automatically transferred into the polyethylene storage tank. A vacuum switch for the bucket venturi initiates blower shutdown in the event of an obstruction.

Blower (Continued). A motor-driven blower (with motor, and an alarm annunciator panel) are mounted on a concrete pad in the southeast corner of the flare station compound. Motor controllers for the compressor are mounted on a rack next to the flare station. Start and stop buttons for the blower, blower oil pump, cooling fan, condensate pump, and compressor annunciators and alarms are located on a control panel in the same area.

Additional Annunciators. After discharge from the blower, the landfill gas passes through an orifice plate and flame arrester before entering the incinerator. A 7-day paper chart flow recorder continuously records static and differential pressure readings at the orifice plate. These readings are used to calculate volumetric flow rates.

Incinerator. The incinerator stack (18' x 6' x 35' high) is located in the northeast corner of the flare station compound. Five burners are located inside the stack, with a fuel gas gas and pilot mounted on the central burner. Preheat fuel gas (sourced in a tank in the southeast corner of the compound) is designed to preheat the stack before the incineration of landfill gas. Two 3' x 6' air dampers located 180° opposed below the burner throat plate are automatically adjusted to maintain combustion temperature at a selected set point. Also mounted on the stack is an ultraviolet flame scanner, 2 stack thermocouples, and 3" sample ports.

The fuel gas train control panel and oxygen analyzer are mounted on a rack next to the incinerator stack. The panel contains control buttons and annunciators installed in a weatherproof enclosure. The fuel gas train consists of valves and piping that deliver preheat to the pilot and preheat gas gas. The oxygen analyzer will shut the incinerator system down if the oxygen concentration reaches an upper limit of 13% by volume.

A strip chart recorder for stack temperature is located in the control panel. Stack temperature is presently kept at 1600° F by setting the temperature controller mounted in the control panel.

Instrumentation. The interior gas extraction system operates continuously as an automatic plant. Station shutdowns can occur from a number of faults initiated by the various system alarms. Plant shutdown events are called out by an annunciator machine located in the office building in the flare station compound. The annunciator can be programmed to call-up to 9 different phone numbers, and will repeat the call-out cycle until the alarm condition is rectified or the machine is physically turned off. The annunciator is on-line whenever the station is operating.

1.1.2 Perimeter Gas Extraction System. The perimeter gas extraction system was installed by Operating Industries, Inc., and is physically independent of the interior system. The current rate of extraction is approximately 1200 mcf. The perimeter system consists of the wellfield, the main flare station, and the auxiliary flare station, as presented in Figure 1.1.

Wellfield

Extraction Wells. The perimeter well field consists of a total of 79 wells at 30 locations on the north, south, and east boundaries of the site. Depths range from 20 to 100 feet, with some wells penetrating through the refuse cells into native soils. Wells and laterals are constructed of PVC pipe, with 2 couplings located in some wells.

Conveyance Components. Header lines convey extracted gas to the flare station and are constructed of Class 160 PVC pipe. Lines vary from 6 to 16 inches in diameter, and are generally buried no more than two feet below grade. Water traps at low points along the header lines allow condensate to drain from the piping into the landfill. Valves at all branches and at several intermediate points allow isolation or restriction of flow from various areas of the wellfield.

Main Flare Station. The main flare station is located on a gravelled pad on native soil in the northwest corner of the landfill. The flange upstream of the condensate knockout is considered to be the flare station/well field boundary.

Condensate Removal. Landfill gas drawn to the main flare station passes through a vertically mounted mechanical condensate knockout tank immediately upon entering the station. The separated liquid flows by gravity into an underground 100 gallon sump, and is automatically pumped from the sump to the above-ground storage tank, which also serve as on-site storage for the knockout collection system.

Operation of the condensate removal pumps is controlled by level switches. The pump cycles approximately once every 2 days depending on condensate inflow and dropout. Condensate can also be removed from the sump via a 4" sized pipe vent to the pump grade.

Blowers (Compressors). After condensate removal, the gas stream enters the steel header section and passes through 1 or more of the 3 Scotch rotary positive displacement blowers. The blowers are driven by 100 hp 1000 rpm electric motors. Gas discharged from the blowers passes through vertically mounted chamber-type silencers. Each of the silencer tanks is equipped with an acoustic enclosure to further reduce blowing noise.

Additional Appliances. After passing through the silencers, gas flows through an orifice glass and flame arresters to the flare stacks. The flow recorder operates continuously to record blower discharge flow rate. The recorder paper must be changed every 7 days.

Flares. The main flare station contains 3 flares (9' x 2' x 20' high) which are designed to handle a maximum flow of 1500 scfm each. Each flare is equipped with 2 manual burners, 2 ultraviolet flame sensors, a stack thermometer, a viewport, and 4 sampling ports.

Each temperature is not occasionally converted in the perimeter flare system. Operators at the base of the stacks must be manually covered or uncovered to maintain combustion temperature at the desired level.

Propane for ignition is stored in refillable 5 gallon tanks connected to a distribution manifold at the corner of the station.

The main electrical panel in the compressor contains the transformer, fuses, and meter control center for the station.

The control panel enclosure is located next to the main electrical panel and contains the stack temperature recorder, flow and condensate pump control relays, and illuminator lights.

Instrumentation. The perimeter gas extraction system operates continuously as an unmanned plant. Flare shutdowns, due to safety alarms or power failures, are announced by lights on top of the control panel enclosures. However, there is no automatic dialing system for notifying the management in the event of a shutdown. Visual inspection is necessary to verify proper station operation.

Auxiliary Flare Station. The auxiliary flare station is operated only as a backup to the main station - the 2 are never on line simultaneously.

The auxiliary flare station is located at the southwest corner of the site. The compressor, which also contains the Airlike System compressors (described in **Compressor Station**), is constructed on refuse fill and is experiencing differential settlement.

The auxiliary flare station is linked to the perimeter system header lines, and consists of 2 centrifugal type blowers and 3 flare stacks. Piping is Schedule 40 PVC throughout. As at the main station, gas passes through flame arresters and is then incinerated. The flare stacks themselves are generally corroded and in poor condition. Each flare is designed for a maximum of 500 scfm flow. Flare stacks include an ultraviolet flame sensor and thermometer. Such pilots are fueled with propane. Such temperatures are continuously recorded, but flow is not. There is no condensate knockout or collection at the auxiliary flare station. There are no devices for regulating stack temperatures.

The auxiliary station operates similarly to an unmanned station, although there is no electrical annunciation of station failure. Visual inspection is necessary to verify continuous flare operation.

1.1.3 Airlike System. The Airlike System is located along the western and northwestern boundary of the site. The system is designed to inject air into the subsurface soil to form an air curtain in an attempt to prevent off-site subsurface migration of landfill gas. Operating instructions, located at the Airlike System rather than gas extraction wells in this area due to the potential for inundation of the wells of the north parcel. The Airlike system consists of the compressor station, the wellfield, and the probes, as presented in Figure 1.1.

Compressor Station. The compressor station (Figure 1.1) is located on a concrete pad in the southwest corner of the site, collected with the auxiliary flare station.

Compressed air is supplied to airlike wells by two motor-driven identical positive displacement compressors, which operate in parallel. The system includes pulsation dampers and a heat exchanger for cooling discharge air. Air flows from the cooler out to the well field through a 10" schedule 40 PVC line.

The main electrical panel is located next to the compressors. Compressor and cooler control panels are next to each well.

The compressor station operates continuously as an unmanned facility. Station shutdowns or malfunctions is not announced. There is no automated recording of operating conditions.

Wellfield. The 34 airlike wells, approximately 100 feet apart on center, are constructed of 3 inch schedule 40 PVC pipe and are set into native soil. Wells range in depth from 15 to 150 feet and have perforated zones between 5 and 40 feet. The header lines, also constructed of PVC, are buried

from 2 to 10 feet below grade. The airline header lines are not equipped with valves for flow adjustment or maintenance diagnostics. Well adjustments are made by throttling valves at each injection well head, or changing the size of the orifice plate used for flow measurement.

Airline Probes Airline probes are located approximately 30 feet from each well on center. Probes are of PVC construction and sample from depths of 3 and 30 feet. There are a total of 34 probes and 41 sampling depths.

L2 Leachate Collection System Between 1960 and 1964, Operating Industries, Inc. installed portions of the leachate collection system on an as-needed basis as ordered by the South Coast Air Quality Management District (SCAQMD) in response to leachate seeps. Prior to October 1964, collected leachate was mixed with increasing refuse and was redispersed as part of the ongoing landfill operations. After the Regional Water Quality Control Board (RWQCB) prohibited this redispersion of leachate, OII began handling the leachate off-site for disposal or treatment. In 1964, EPA assumed responsibility for leachate treating and treatment when OII stated it could no longer afford to continue off-site treatment. EPA currently treats all hazardous liquids generated at OII as an off-site treatment facility as part of the site closure and monitoring activities.

Approximately 6000 gallons of leachate per day is currently collected from the existing leachate collection system. This system does not collect leachate which has percolated deeper into the landfill and which may be contaminating groundwater. Components of the system may need modifications to improve leachate collection efficiency.

The existing system consists of various combinations of shallow French drains, extraction wells, disposal berings, manure pumps, leachate lines, underground collection tanks, and above-ground storage tanks located in five portions of the southern portion of the OII landfill site. The existing collection system is divided into Areas I through V as illustrated in Figures L2 and L4.

L2.1 Area I Collection Area I of the leachate collection system is located in the southwestern portion of the site. Although liquid waste disposal was not permitted in Area I, leachate seeps were reported here in 1961. The current collection system in this area of the landfill, which was installed in 1961, consists of shallow French drains and gravel trenches leading to thirteen 36-inch diameter disposal berings which are 70 to 100 feet deep and terminate in dry trash. Seven of the wells consist of gravel pack only with the remaining 6 cased with PVC pipe, although no in-place pumping mechanism currently exists for these wells. All disposal berings, except 2 of the PVC-cased wells, serve to collect leachate from a series of shallow (less than 5 feet deep) gravel trenches which are tied into the berings for redispersion into the landfill. No active pumping of leachate is currently conducted in Area I.

Site personnel suspect that the 2 uncased wells were originally drilled as part of the gas extraction system, but were never connected to the system. No recent seeps in the southwestern portion of the OII site have been reported. One deep monitoring well, Well R, is also located in Area I.

Well R consists of a 6-inch casing extending from the top deck of the landfill, through the refuse fill, and into the active material below the fill. Well R was founded on September 24, 1964, and showed 10 feet of liquids present in the bottom of the well. The well was originally constructed to monitor the water beneath the bottom of the fill.

A test buttress was constructed by EPA as an emergency response action in early 1967 along the south/westwestern perimeter of the landfill in Area I to support the landfill slopes. As part of the buttress construction, a leachate collection system was installed consisting of collection pipes and three 1,000-gallon storage tanks designed to capture leachate migrating toward the site boundary. These storage tanks are not currently connected to the existing site leachate collection manifold. There has been no leachate detected in the tanks since their installation in February, 1967.

L2.2 Area II Collection Area II is located on the south/westwestern side of the landfill above the city of Montebello's Iguala park and consists of the eight 36-inch diameter wells at total depths of 70 to 80 feet, extending through approximately 10-15 feet of landfill refuse and into native earth material. The lower 60 feet of the wells consist of perforated PVC casing and gravel pack designed to directly intercept the leachate.

All of the wells are connected to the perimeter gas extraction system header line by a 1 1/2 inch PVC vapor collection line to extract gases from the well casing above the leachate.

Leachate from 5 of the 8 wells is pumped by electrically-powered impeller-type submersible pumps. The main switch-circuit breakers for these pumps are located at the irrigation control panel in the southwest corner of the site. One of the 8 wells is pumped by a manually-operated pneumatic air lift pump which is supplied by the air-cooled single stage 3000 psi compressor located in the auxiliary flare station compound. This well was converted from a submersible pump to the pneumatic air lift pump due to frequent failures from oil, grease, and solids buildup.

The 2 newest wells are equipped with automatic pneumatic ejector pumps which are supplied by the 2 positive-displacement reciprocating air/die compressors located in the auxiliary flare station compound. All eight wells are connected to a 4-inch collection manifold for discharge to the on the underground tanks in Area III described in Subparagraph L2.3 of this section.

Four disposal berings which exist in Area II are not connected to the manifold and underground tanks. In the past, these berings have been pumped by vacuum trucks, although no pumping records are available. Recent investigation has indicated that the seepage in all 4 berings have occurred at depths ranging between 15 and 20 feet.

L2.3 Area III Collection The main leachate collection system in Area III, the south/westwestern corner of the site, consists of a series of shallow (less than 5 feet deep) buried perforated pipes and trenches which discharge by

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gravity into 3 buried steel tanks. The 3 tanks rest in a gravel bed at a crown depth of approximately 6 feet. The gravel bed is underlain by landfill refuse. Local leachate which collects in the gravel bed can flow into the tanks via a 4-inch local collection line, or into a horizontal 8-inch PVC pipe which is perforated through the depth of the gravel bed. The existing storage tanks are from old vacuum trucks and are suspected to be leaking.

Leachate collected in the buried tanks and gravel bed in Area III is pumped by a pneumatically operated diaphragm pump. Compressed air to operate the pump is supplied by the Svesa compressor, described in Subparagraph 1.2.3 located at the auxiliary flare station. Pumping is manually controlled utilizing a system of gate valves and is currently performed once per day. Leachate is pumped from the buried tanks and gravel bed through a 2 1/2-inch PVC line to the above-ground, on-site storage currently located west of Area IV.

Ongoing improvements to Area III include the installation of a new concrete sump with an automatic pumping system to reduce the underground storage of leachate, repackaging leachate collection lines from the underground tanks to the sump, and off-filling and abandoning the underground tanks, and connecting french drains around the existing gravel bed. The existing pneumatic diaphragm pump, which is in poor condition, is currently being replaced with a flap-valve double diaphragm pump. The existing Svesa compressor is currently being replaced with a 15 hp compressor to supply the increased air demands. It is expected that these improvements will be completed by the fall of 1981.

Also present in Area III, southwest and down-slope of the buried tanks along the boundary of the OIL site, is a shallow french drain system which leads to a 36-inch diameter unlined gravel sump approximately 20 feet deep. Leachate which collects in this sump is pumped to one of the buried steel tanks by 3 air lift pumps set at 11 and 20 foot depths. Compressed air for the pumps is supplied by the electric positive displacement recirculating compressors.

1.2.4 Area IV Collection. The main leachate collection system in Area IV is located on the western boundary of the site, consists of shallow gravel trenches leading to a main trench which feeds a gravel-filled, unlined, 36-inch diameter sump approximately 40 feet deep. Two long shallow trenches, one which runs along the western side of the site and the other which runs along the northwest, drain to the main gravel trench.

The sump contains 3 vertical 6-inch perforated PVC casings. Two of the casings contain air lift pumps at 10 feet and 35 feet below grade. The third casing does not contain a pump. Operating air for the air lift pumps is currently supplied by the existing positive displacement recirculating compressor. Collected leachate is pumped directly to the above-ground leachate storage tanks also located in Area IV.

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Design plans and specifications are currently being developed for a 40-foot deep concrete wet well and pneumatic ejector pump to replace the existing sump. Air to operate the pump will be supplied by a new compressor which will be dedicated to future pumping needs of Area IV and V. It is expected that these improvements will be completed by the fall of 1981.

Four inactive structure wells also exist in Area IV. Details of the wells and their conditions are not available, although their casing sizes are 10", 16", 18", and 8". Preliminary investigation has indicated the presence of an unconnected air lift pump in one well although the depth and condition of the pump are unknown. All 4 wells reportedly contained no oily liquid.

1.2.5 Area V Collection. The leachate collection system in Area V, located in the northwestern portion of the southern parcel of the landfill, is similar to the system in Area I. It consists of shallow gravel trenches containing perforated 4-inch PVC collection pipes leading to 3 cubic (10-inch casing) leachate disposal berlings drilled into refuse at depths of nearly 100 feet. No active pumping of leachate is currently conducted in Area V. It is believed that leachate seeps reported in this area in the past occurred due to the stockpiling of dirt, which caused compression of landfill material up-slope of seep areas and subsequent reduction of liquid holding capacity. When the barren material was removed, the leachate seeps disappeared. Recent investigations indicate the presence of an air lift pump in one well. This air lift pump is not currently operating and the condition of this pump and depth in the well are not known at this time. One well was reported to contain 75 feet of oily liquid. There have been no recent seeps reported in Area V.

1.2.6 On-site Storage. The above-ground leachate storage tanks are located in Area IV west of the access road. Total above-ground storage currently consists of 3 rented 30,000 gallon tanks. The tanks are surrounded by an earthen berm and underlain by a buried membrane liner. Leachate, condensate from the perimeter flare station, and other liquids from the remedial investigation activities are stored here until removal for off-site treatment/disposal.

1.3 Landscaping/Utilization. There are currently 3 irrigation systems on-site. No irrigation lines exist on the north parcel or on the top deck of the landfill. Water to all systems is fed from an electrically driven supply pump located in a compressed just east of the compressor station/auxiliary flare station. The general location of these systems is indicated on Figure 1.3.

1.3.1 OIL Systems. OIL installed a manually-operated irrigation system on the south, east, and north sides of the landfill. Few details are available on the system or current operation.

Operation of this system is currently the responsibility of OIL. Coordination is required between the SCM contractor and OIL personnel to ensure that the manually operated supply pump is active during the time that the automatic systems will be operating.

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1.3.2 Top Bottom System and Northwest Slope System The SCM contractors currently operate only the top bottom and northwest slope systems installed by EPA. These are both operationally operated by locally mounted control boxes, at which watering start and stop times can be adjusted.

1.4 PASSIVE CONTROL SYSTEMS

1.4.1 Stormwater/Leakage Control Stormwater runoff is routed via a network of V-ditches of down drains. There are 4 down drains which convey surface water from the landfill top deck and benches to existing storm sewer channels and natural channels off-site. The down drains consist of corrugated pipe placed at a slope to allow natural flow by gravity. The locations of these down drains are indicated in Figure 1.6

Approximately 16,500 linear feet of concrete drainage swale or V-ditch drains 3 of the terrace roadways (or benches). The ditches have experienced significant subsidence in some areas and require frequent maintenance to achieve adequate drainage control.

Interim drainage improvements to the top deck of the landfill include placement of additional fill to maintain critical flowlines, repair of leak structures to Liber A, replacement of Liber A, and construction of city V-ditches. It is expected that these improvements will be completed by the fall of 1992.

1.4.2 Site Access and Security The following support facilities and equipment serve a security function at the OMI site:

1.4.2.1 Access Roads The site roadway system connects all portions of the site to a single north-south corridor as indicated in Figure 1.7. Beach roads, on the slopes of the fill, remain from the various lifts that were constructed during the landfilling operation and are often referenced by their original MSL elevation. The Greenwood and Westwood access roads derive their names from a proposed plan of the City of Monterey Park to extend the existing avenues along these roads.

All road surfaces are dirt except for short paved sections of the flare station access road and a portion of Westwood extension on the grade up to the top deck.

Beach's roadways are narrow and require care when driving especially under wet conditions. Many roadways may become impassable, even to four-wheel drive vehicles, during the rainy season. Access to the main perimeter and interior flare station and transfer compounds however, is fairly good under these conditions, even to passenger vehicles. Beach roads are often too narrow to allow safe turnarounds, and parking may be difficult in places.

1.4.2.2 Exclusion Fencing Fencing of varying height (approximately 6 to 8 feet) and construction encircles the perimeter of the site. Fencing is sufficient to prevent vehicle access and most foot traffic; however, it is mainly of uncoated chain link and therefore can be climbed relatively easily. Permanently locked gates exist at several places along the perimeter fence line and can be

utilized if necessary to provide access the site for foot traffic or heavy equipment. These gateways are not suitable for passenger cars. Inside the perimeter fence, fencing topped with barbed wire and/or razor ribbon surrounds the three flare stations, the trailer compound, and the meteorological station.

1.4.2.3 Gate Security Office An EPA-owned 6'x8' office trailer is presently located at the Greenwood Avenue access gate. The trailer has electrical service, but no water, sewer, or telephone service. The trailer is equipped with an air conditioner.

1.4.2.4 Security Lighting Security floodlights exist in the trailer compound, at the interior and the main perimeter flare stations, and at the decontamination pad.

1.4.2.5 Utilities and Support Facilities Power, water, phone, and sewer connections currently exist on the south parcel. Additional information on these services, and other site support facilities are presented in Section: Utilities and On-Site Facilities.

1.4.2.6 Kalamazoo Gate Access to the south parcel of the landfill is through the main Greenwood Avenue gate located on the north parcel.

1.5 MONITORING

The general location of monitoring points is identified on Figure 1.8

1.5.1 Probes

Exclusion Probes Probes were installed by OMI around the perimeter of the south parcel. These probes were intended to monitor landfill gas migration across the site boundary and were therefore placed primarily in native soil outside the refuse fill area. Probes are constructed of PVC pipe and polyethylene tubing, and are numbered 1A through 32 for a total of 32 probe locations. Many probes are screened at multiple depths, generally 2, 15, 25, 35, and 45 feet, but some have less than 5 screened depths and 17 have only a single depth.

Off-Gas Probes Twenty-seven multiple-depth probes were installed by the California Waste Management Board (CWMB) in the residential areas south of the south parcel. The probes are similar to the perimeter probes. They have multiple depths between 15 and 49 feet, and are numbered 1 through 11A. These probes are used to monitor the migration of landfill gas into the residential neighborhoods.

North Parcel Probes Fifteen probes were installed at a single shallow depth on the north parcel by OMI. These probes were meant to indicate the presence of landfill gas in the filled area of the north parcel, which has no gas control systems. Probes are numbered N-1 through N-15; probes 3, 4, 12, 13, and 15 have been destroyed or lost and are no longer monitored.

1.5.2 Wells

Landfill Gas Monitoring Wells Two sets of landfill gas monitoring probe systems, known as Gas Monitoring Wells (GMW), have been installed by EPA on the north and south parcels. Each well consists from 2 to 6 probes at different depths. The north parcel contains 13 of these wells with probe depths ranging from 20 to 120 feet. There are 15 south parcel wells designated with probe depths ranging from 20 to 340 feet.

U.S.3 Water table levels. Also in the neighborhood to the south of the South Parcel are a number of water meter basins that are regularly monitored. As the rains begin, these are usually empty in the adjacent, but contain residual water meters. Wastewater basins flow through the soil layer of the yards and are tied to the bay by the largest metal cover. The atmosphere of the basins is monitored as an indication of liquid gas migration level and extent. Due to consistently elevated gas levels in certain basins, a number of the steel lids were replaced by EPA. The new perforated lids may let the gases escape and prevent exposure to water company personnel.

U.S.4 Meteorological Station. The meteorological station is located on the top edge of the roughness corner of the site. The following items are measured: wind level, solar radiation, wind velocity and direction, barometric pressure and humidity.

U.S.5 Geotechnical Instruments. There are 36 surface monuments, many concentrated on steep slopes (North Slope and two basins). The observation are conducted by both ground and aerial surveillance on a monthly basis. There are 11 inclinometers, two sets are deployed on the North Slope and the rest around the two basins. Observations are done on a monthly basis. There are 6 piezometers for liquid level monitoring. The locations are similar to those of the inclinometers.

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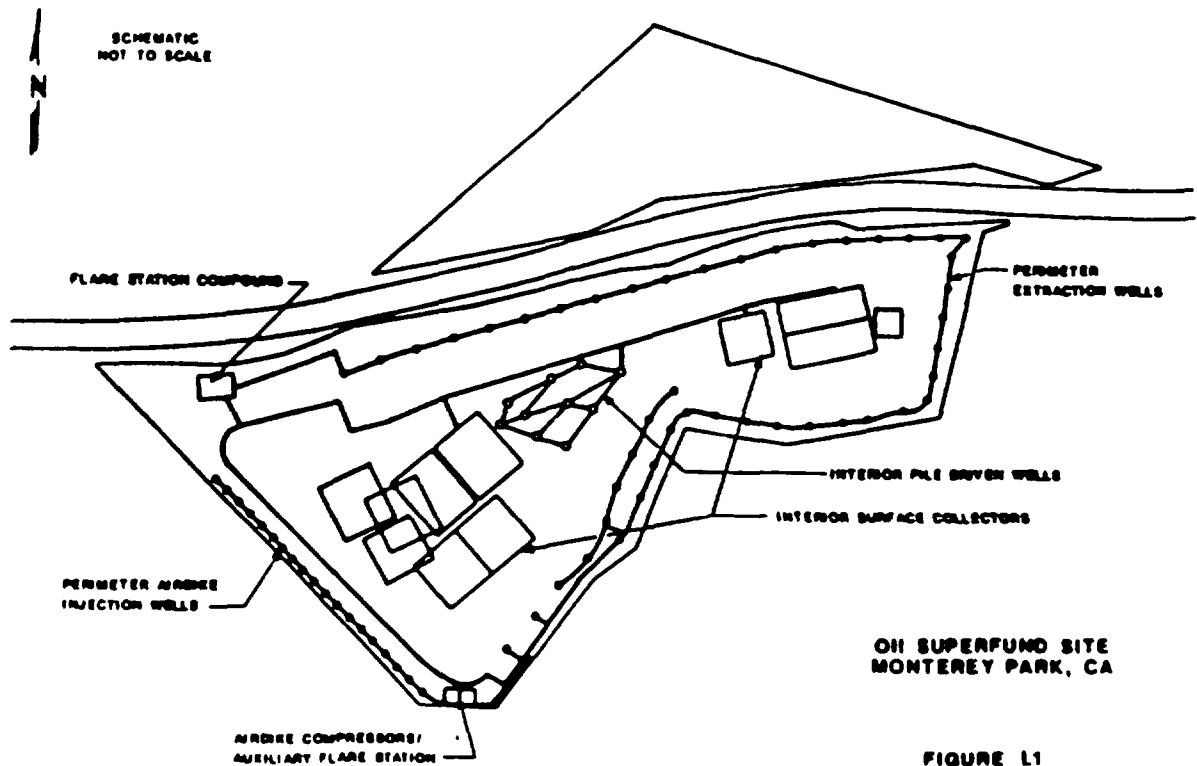


FIGURE L1
GAS MANAGEMENT SYSTEM

EXISTING OIL GAS MANAGEMENT SYSTEM

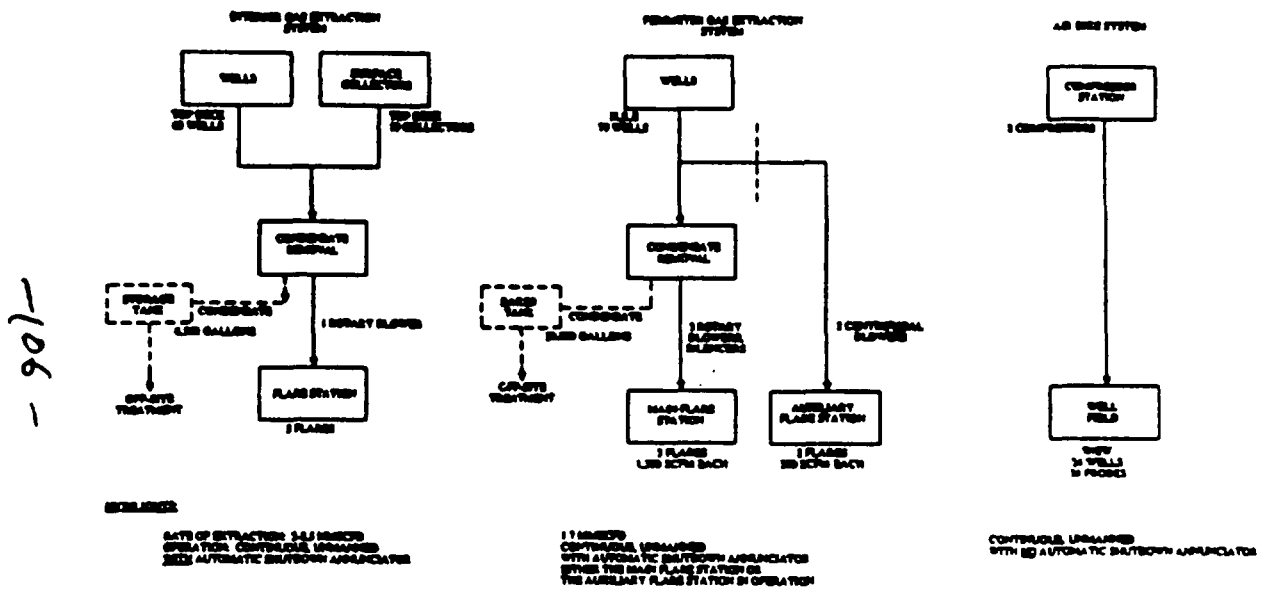


FIGURE 1.2

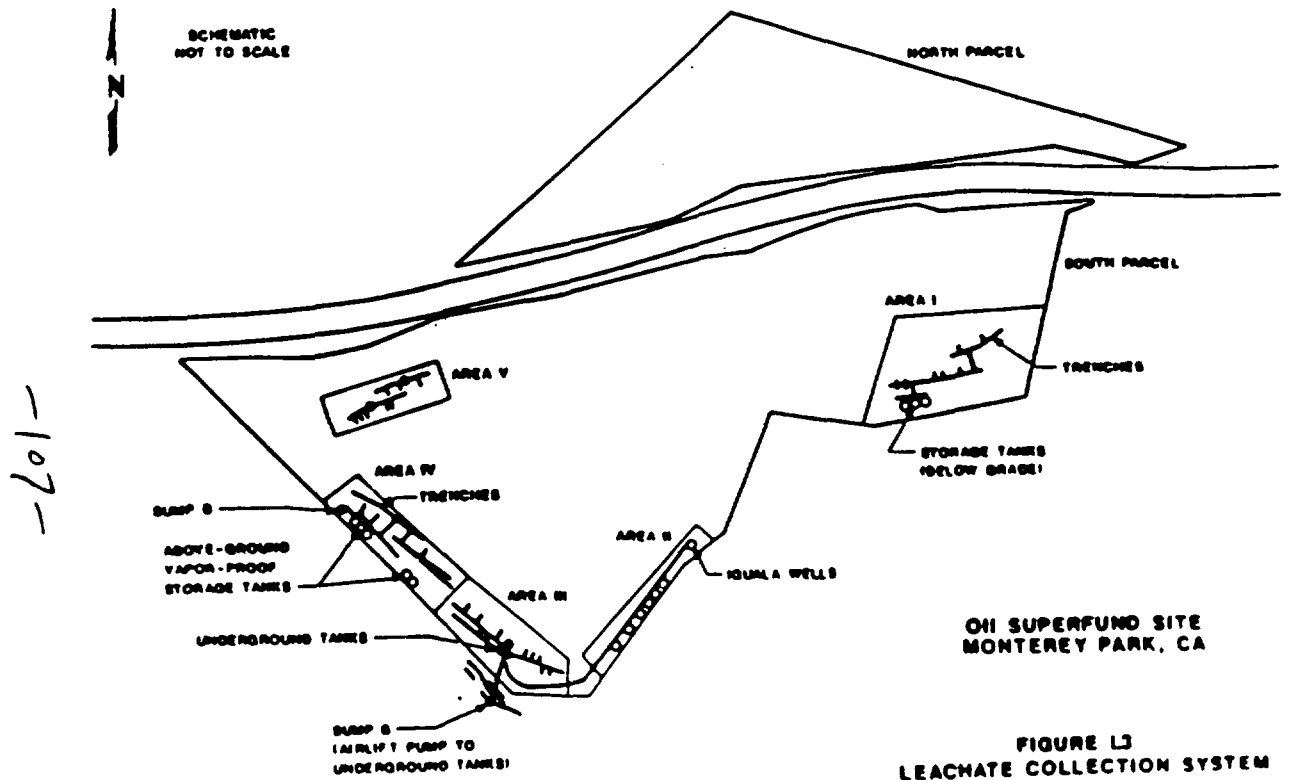


FIGURE 1.3
LEACHATE COLLECTION SYSTEM

EXISTING OIL LEACHATE MANAGEMENT SYSTEM

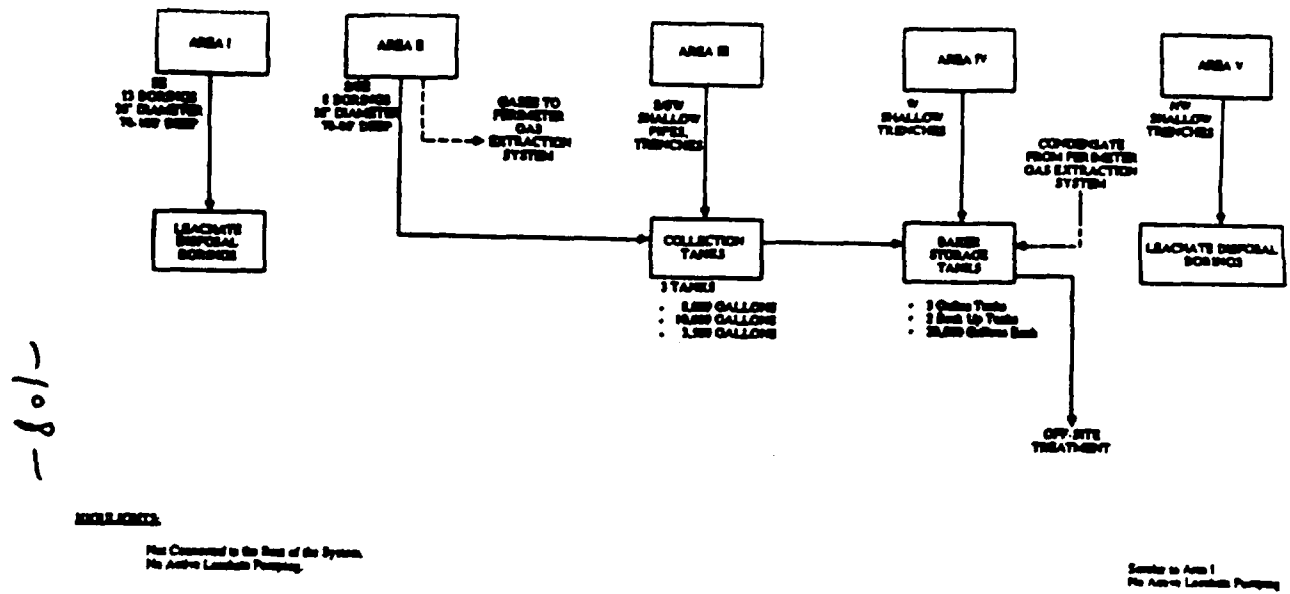


FIGURE 1.4

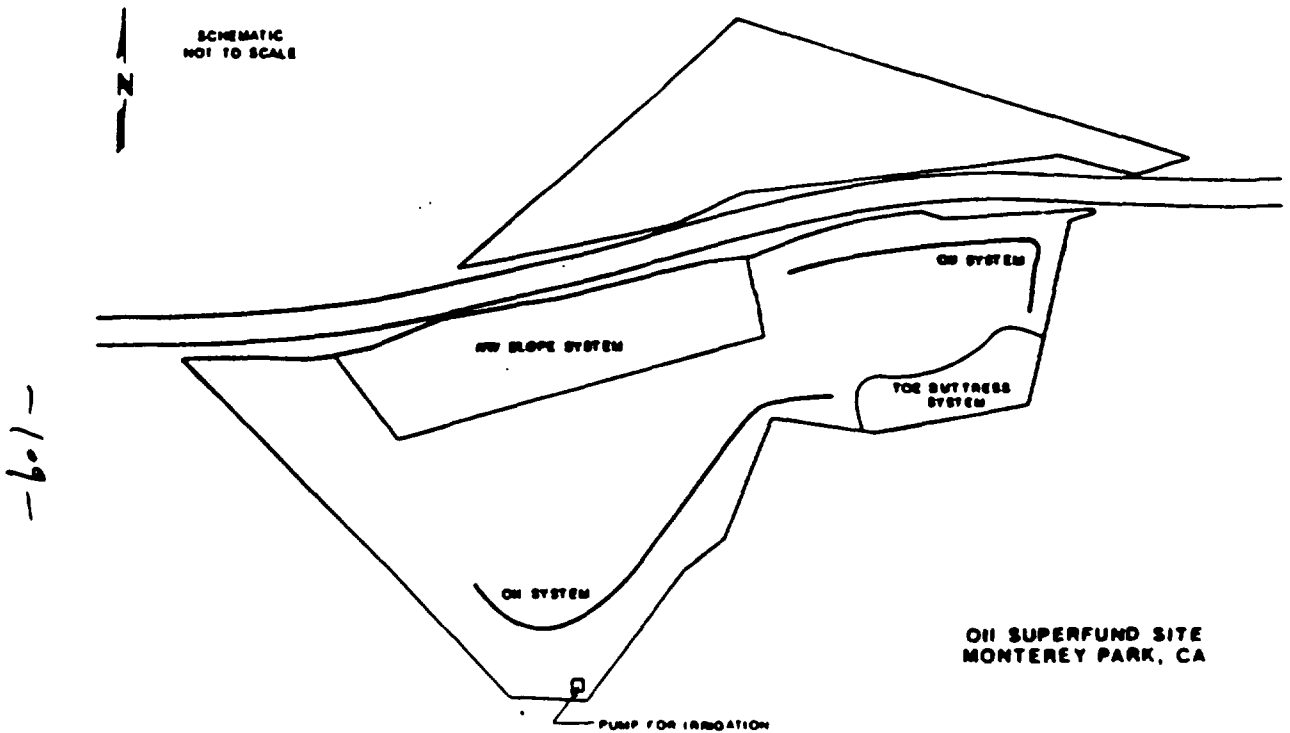


FIGURE 1.5
LANDSCAPING/IRRIGATION SYSTEM

SCHEMATIC
NOT TO SCALE

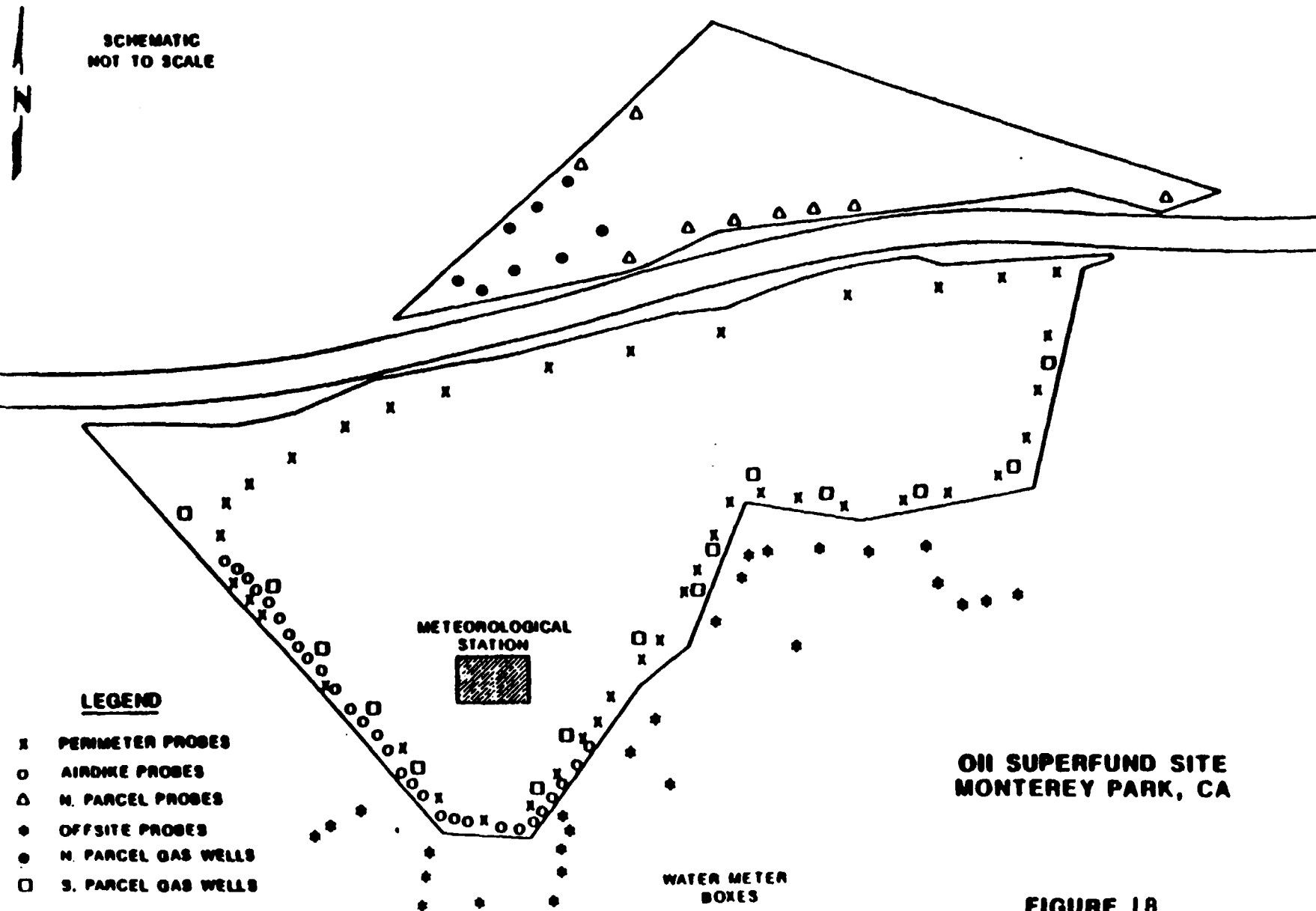


FIGURE 1.8
PROBES AND MONITORING POINTS

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Exhibit-B
Operating Industries, Inc.
Schedule of Payment-1

Generator	EPA Payment	State Payment
AMERICAN PETROFINA	\$154,117	\$1,340
* AMERITONE PAINT CORP. / TREWAX CO.	\$355,038	\$3,087
* AMTRAK - NATIONAL RR PASSENGER CO.	\$132,532	\$1,152
ARMSTRONG CORK CO.	\$79,441	\$691
* B & C PLATING CO.	\$232,017	\$2,018
* BEHR PROCESSING	\$134,952	\$1,173
* BERNARD EPPS AND CO.	\$164,574	\$1,431
* BERWIND RAILWAY SERVICE CO.	\$154,024	\$1,339
BIRD AND SON INC.	\$70,192	\$610
* BLACKTOP MATERIAL CO.	\$153,128	\$1,332
* CAPITOL METALS CO., INC.	\$107,663	\$936
CHROME CRANKSHAFT	\$80,130	\$697
CLOUGHERTY PACKING	\$163,809	\$1,424
* CONTAINER CORPORATION OF AMERICA	\$271,744	\$2,363
* COOPER AND BRAIN OIL CO.	\$138,118	\$1,201
CROWN ZELLERBACH	\$97,640	\$849
DECALTA OIL CO.	\$123,591	\$1,075
DEUTSCH CO.	\$97,082	\$844
DIAL CORP.	\$2,653	\$23
* EKCO PRODUCTS, INC.	\$139,841	\$1,216
FIBREBOARD CORP.	\$98,608	\$857
FORD MOTOR CO.	\$104,887	\$912
GENERAL ELECTRIC CO.	\$83,655	\$727
GOULD INC.	\$125,204	\$1,089
GRANT OIL TOOL CO.	\$72,220	\$628
HELLMAN ESTATES OIL CO.	\$101,343	\$881
HERTZ CORP.	\$85,218	\$741
* HI-PRODUCTION FORGE	\$143,507	\$1,248
INGLEWOOD, CITY OF	\$95,936	\$834
INLAND CONTAINER	\$86,441	\$752
INMONT INK CORP.	\$73,064	\$635
INTERSTATE BRANDS BAKERY	\$83,895	\$730
* KERN FOODS INC.	\$516,974	\$4,495
KEYSOR CENTURY CORP.	\$598,227	\$5,202
LATCHFORD GLASS CO.	\$95,149	\$827
LOS ANGELES, CITY OF	\$95,204	\$828
MAGCOBAR / DRESSER INDUSTRIES	\$84,596	\$736
MASTER PROCESSING CORP.	\$107,798	\$937
MCCULLOCH CORP.	\$83,936	\$730
NU CAR PREP	\$84,640	\$736
OIL AND SOLVENT PROCESS CO.	\$150,733	\$1,311
OLYMPIC PAINT AND CHEMICAL CO.	\$75,366	\$655
PACIFIC PUMPS / DRESSER INDUSTRIES	\$88,424	\$769
PACIFIC TUBE CO.	\$90,509	\$787

Exhibit-B
Operating Industries, Inc.
Schedule of Payment-1

Generator	EPA Payment	State Payment
PIONEER-FLINTKOTE	\$73,231	\$637
* PRECISION HEAT TREATING CO.	\$128,656	\$1,119
PRODUCTOL CHEMICAL CO. / FERRO CORP.	\$163,263	\$1,420
PRUDENTIAL OVERALL	\$91,717	\$798
PUREX CORP.	\$79,460	\$691
R & D LATEX	\$76,731	\$667
ROCKWELL INTERNATIONAL	\$175,183	\$1,523
ROYAL ALUMINUM	\$95,042	\$826
SHASTA BEVERAGE	\$79,296	\$690
* SOUTHERN CALIFORNIA CHEMICAL	\$491,836	\$4,277
SOUTHWEST FOREST INDUSTRIES	\$73,294	\$637
STARKIST FOODS	\$90,212	\$784
TELEDYNE	\$79,637	\$692
VOI-SHAN	\$76,573	\$666
WESLOCK CO.	\$96,368	\$838
WESTERN CHEMICAL AND MANUFACTURING	\$120,915	\$1,051
WILMINGTON LIQUID BULK	\$132,962	\$1,156
ZOLATONE PROCESS INCORPORATED	\$133,955	\$1,165

- * Any premiums included in these payments shall not be used in the calculation of any allocation pursuant to Paragraph H of Section XVIII (Reservation of Rights) of the first Partial Consent Decree as incorporated herein.

Exhibit-B
Operating Industries, Inc.
Schedule of Payment-2

	Year 1		Year-2		Year-3		Year-4	
	Federal	State	Federal	State	Federal	State	Federal	State
Ladish *	\$68,113.92	\$593.60	\$91,348.06	\$796.08	\$85,225.11	\$742.72	\$79,102.15	\$689.36
Nance, G.R.	\$13,995.60	\$121.80	\$22,191.42	\$193.13	\$20,723.63	\$180.35	\$22,754.75	\$198.03
Pervo Paint	\$14,655.60	\$127.40	\$23,237.92	\$202.01	\$21,700.91	\$188.64	\$23,827.81	\$207.13
Rent-a-Uniform	\$18,635.00	\$162.00	\$29,547.66	\$256.87	\$27,593.31	\$239.88	\$30,297.71	\$263.39
Synkoloid	\$14,805.40	\$128.80	\$23,475.44	\$204.23	\$21,922.73	\$190.72	\$24,071.36	\$209.41

* Any premiums included in these payments shall not be used in the calculation of any allocation pursuant to Paragraph H of Section XVIII (Reservation of Rights) of the first Partial Consent Decree as incorporated herein.

Exhibit-C
Operating Industries, Inc. Volumetric Totals *
Table-1
January 1991

Generator	Gallons	Tons	Other	Total Volume Converted to Gallons	% of Total
AMERICAN PETROFINA	218,400	100	500	243,957	0.134%
AMERITONE PAINT CORP. / TREWAX CO. **	271,428	0	0	416,298	0.229%
AMTRAK - NATIONAL RR PASSENGER CO.	152,400	0	3,000	155,400	0.085%
ARMSTRONG CORK CO.	125,540	0	210	125,750	0.069%
ARTRA-SYNKOLOID CO.	117,180	0	0	117,180	0.064%
B & C PLATING CO.	271,950	0	100	272,050	0.149%
BEHR PROCESSING	194,200	0	0	194,200	0.107%
BERNARD EPPS AND CO.	192,360	0	610	192,970	0.108%
BERWIND RAILWAY SERVICE CO.	180,600	0	0	180,600	0.099%
BIRD AND SON INC.	110,710	0	400	111,110	0.061%
BLACKTOP MATERIAL CO.	179,550	0	0	179,550	0.099%
CAPITOL METALS CO., INC.	126,140	0	100	126,240	0.069%
CHROME CRANKSHAFT	126,840	0	0	126,840	0.070%
CLOUGHERTY PACKING	258,930	0	370	259,300	0.142%
CONTAINER CORPORATION OF AMERICA	318,222	0	410	318,632	0.175%
COOPER AND BRAIN OIL CO.	161,700	0	250	161,950	0.089%
CROWN ZELLERBACH	154,318	0	240	154,558	0.085%
DECALTA OIL CO.	195,636	0	0	195,636	0.107%
DEUTSCH CO.	152,140	0	1,535	153,675	0.084%
DIAL CORP. ***	4,200	0	0	4,200	0.002%
EKCO PRODUCTS, INC.	163,970	0	0	163,970	0.090%
FIBREBOARD CORP.	156,090	0	0	156,090	0.086%
FORD MOTOR CO.	166,010	0	20	166,030	0.091%
GENERAL ELECTRIC CO.	132,240	0	180	132,420	0.073%
GOULD INC.	198,190	0	0	198,190	0.109%
GRANT OIL TOOL CO.	110,770	0	3,550	114,320	0.063%
HELLMAN ESTATES OIL CO.	155,720	0	4,700	160,420	0.088%
HERTZ CORP.	134,770	0	125	134,895	0.074%
HI-PRODUCTION FORGE	168,204	0	65	168,269	0.092%
INGLEWOOD, CITY OF	151,860	0	0	151,860	0.083%
INLAND CONTAINER	136,830	0	0	136,830	0.075%
INMONT INK CORP.	113,585	0	2,070	115,655	0.064%
INTERSTATE BRANDS BAKERY	132,380	0	420	132,800	0.073%
KERN FOODS INC.	605,976	0	200	606,176	0.333%
KEYSOR CENTURY CORP.	946,155	0	800	946,955	0.520%
LADISH PACIFIC DIVISION	384,972	0	100	385,072	0.212%
LATCHFORD GLASS CO.	150,340	0	275	150,615	0.083%
LOS ANGELES, CITY OF	136,652	0	14,050	150,702	0.083%
MAGCOBAR / DRESSER INDUSTRIES	133,810	0	100	133,910	0.074%
MASTER PROCESSING CORP.	170,562	0	75	170,637	0.094%
MCCULLOCH CORP.	127,190	0	5,675	132,865	0.073%
NANCE, G.R.	110,670	0	100	110,770	0.061%
NU CAR PREP	133,980	0	0	133,980	0.074%
OIL AND SOLVENT PROCESS CO.	238,600	0	0	238,600	0.131%

Exhibit-C
Operating Industries, Inc. Volumetric Totals *
Table-1
January 1991

Generator	Gallons	Tons	Other	Total Volume Converted to Gallons	% of Total
OLYMPIC PAINT AND CHEMICAL CO.	119,100	0	200	119,300	0.066%
PACIFIC PUMPS / DRESSER INDUSTRIES	139,969	0	0	139,969	0.077%
PACIFIC TUBE CO.	133,720	0	9,550	143,270	0.079%
PERVO PAINT CO.	115,920	0	75	115,995	0.064%
PIONEER-FLINTKOTE	115,920	0	0	115,920	0.064%
PRECISION HEAT TREATING CO.	150,800	0	55	150,855	0.083%
PRODUCTOL CHEMICAL CO. / FERRO CORP.	258,400	0	35	258,435	0.142%
PRUDENTIAL OVERALL	144,272	0	910	145,182	0.080%
PUREX CORP. ***	125,630	0	150	125,780	0.069%
R & D LATEX	120,960	0	500	121,460	0.067%
RENTA UNIFORM ***	143,490	0	4,000	147,490	0.081%
ROCKWELL INTERNATIONAL	277,188	0	115	277,303	0.152%
ROYAL ALUMINUM	150,346	0	100	150,446	0.083%
SHASTA BEVERAGE	125,370	0	150	125,520	0.069%
SOUTHERN CALIFORNIA CHEMICAL ***	514,700	0	62,000	576,700	0.317%
SOUTHWEST FOREST INDUSTRIES	115,920	0	100	116,020	0.064%
STARKIST FOODS	142,800	0	0	142,800	0.078%
TELEDYNE	126,060	0	0	126,060	0.069%
VOI-SHAN	112,255	0	8,955	121,210	0.067%
WESLOCK CO.	131,485	0	21,060	152,545	0.084%
WESTERN CHEMICAL AND MANUFACTURING	181,750	0	9,650	191,400	0.105%
WILMINGTON LIQUID BULK	210,210	0	260	210,470	0.116%
ZOLATONE PROCESS INCORPORATED	209,774	8	265	212,042	0.116%

* The volumes appearing on this attachment are subject to change as more information is gathered.

** Ameritone Paint includes Trewax (144,870 gals)

*** Reflects volume correction.